



**SUSTAINABILITY
REPORT**

可持續發展報告

2017





Devoted to
**ECOLOGY AND
ENVIRONMENT**
for a
BEAUTIFUL CHINA



情繫
生態環境

築夢
美麗中國



CAI YUNGE
蔡允革

Executive Director and Chairman of the Board
執行董事兼董事會主席



“All things live in harmony and grow with nourishment”. Protecting the ecology and environment is crucial to the sustained development of humankind. Currently, the world is facing ever-worsening environmental condition. Issues such as air pollution, water pollution and soil contamination are already causing threatening effects to our daily lives and daily production. Hence, the world is in dire need of collaborations between and dedicated effort from all the national governments, corporations, research institutes, social organisations and individuals to lay a solid foundation for global sustainability and human prosperity.

When the great way prevails, the world is equally shared by all. As a leading enterprise in the ecological and environmental protection industry in China, Everbright International has always been adhering to the core value that “An Enterprise is not only the Creator of Wealth but also the Safeguard of Environmental and Social Responsibility”. While devoting our utmost determination in developing ourselves into a world-leading ecological and environmental protection enterprise, we will continue to fulfil our social responsibilities by actively participating in pollution prevention efforts, and contributing to the nurturing of this beautiful world, our home. Sooner rather than later, blue skies, green land, and clean water will all be within our eyesight.

「萬物各得其和以生，各得其養以成。」保護生態環境是人類永續發展的必由之路。當前，全球正面臨著日益嚴重的環境問題，大氣、水、土壤等污染已經對人類的正常生產生活構成了現實威脅，極需各國政府、企業、研究機構、社會組織和個人共同努力，探索並實踐出一條支撐人類社會文明繁榮的可持續發展道路。

大道之行，天下為公。作為中國生態環保行業的領軍企業，光大國際將始終秉承「企業不僅是物質財富的創造者，更應該成為環境責任的承擔者」核心價值觀，在傾力打造全球領先的生態環境企業的同時，積極履行社會責任，全力參與污染防治，讓天更藍、地更綠、水更清，為呵護人類共有的地球家園作出新的貢獻。

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01/ About this Report 關於本報告	3	06/ Environmental Management 環境管理	50	11/ Awards and Recognitions 獎項與殊榮	97
02/ Message from CEO 行政總裁致辭	4	07/ Valuing Our People 匯聚人才	62	12/ Verification Statement 審核聲明	99
03/ Our Sustainable Business 我們的可持續業務	8	08/ Communities and Philanthropy 社區與公益	78	13/ Key Statistics 主要數據	101
04/ Greening Our Operations 致力綠色運營	28	09/ Joining Hands towards the Sustainable Development Goals 攜手踐行可持續 發展目標	88	14/ GRI Content Index GRI內容索引	103
05/ Stakeholder Engagement and Materiality 持份者參與及實質性	38	10/ Our Way Forward 展望將來	95	15/ HKEx ESG Reporting Guide Content Index 港交所《環境、社會 及管治報告指引》 內容索引	110

China Everbright International Limited (“Everbright International” or the “Company”, together with its subsidiaries, collectively the “Group”), a flagship company in the industrial investment sector of China Everbright Group Ltd. (“China Everbright Group”), is listed on the Main Board of The Stock Exchange of Hong Kong Limited (“HKEx”) (stock code: 257). The Group is a leading player in China’s environmental protection industry and the largest waste-to-energy investor and operator in Asia. It is also the first one-stop integrated environmental solution provider in the country. It also manages a large number of industry-leading and world-class projects with main business covering waste-to-energy, water environment management, biomass integrated utilisation, hazardous waste treatment, solar energy, wind power, environmental protection engineering, technological research and development, environmental protection equipment manufacturing, plus the planning and construction of environmental protection industrial parks, etc.

We believe delivering reports with clarity and transparency is the key to corporate sustainability management, therefore the Company’s significant performances on environmental, social and governance areas are continuously disclosed to stakeholders annually. The Sustainability Report 2017 (the “Report”) covers the Company’s major sustainability statistics and achievements during the period from 1 January 2017 to 31 December 2017 (the “Reporting Period”). The Report has been prepared in accordance with the Global Reporting Initiative (“GRI”) Standards: Comprehensive option, its Electric Utilities Sector Disclosures document as well as the Environmental, Social and Governance (“ESG”) Reporting Guide published by HKEx.

Unless otherwise specified, the information disclosed in the Report is based on the materiality assessment, stakeholder engagement and other relevant sustainability reporting guidelines, covering the sustainability performance of the Company’s headquarter in Hong Kong, Shenzhen representative office, and the operating environmental protection projects in China under the operational control of the Company during the Reporting Period; the sustainability performance contained in this report is limited to our business sectors of Environmental Energy, Envirotech, Equipment Manufacturing and International Business; Environmental Water and Greentech business sectors’ sustainability performances are separately disclosed in the 2017 standalone sustainability reports of the Company’s listed subsidiary companies, namely China Everbright Water Limited (listed on the Mainboard of Singapore Exchange Securities Trading Limited (“SGX”), stock code: U9E) and China Everbright Greentech Limited (listed on the Main Board of HKEx, stock code: 1257) respectively. Workers of contractors and subcontractors and outsourced service workers are not regarded as employees of the Company. Relevant guidelines or provisions of international or local context are used as the basis for data collection and analysis of the Report, including the use of the Clean Development Mechanism (“CDM”)’s approved methodologies for the estimation of the projects’ greenhouse gas emissions.

The Company has commissioned the Hong Kong Quality Assurance Agency as a third-party verification institution to conduct an independent audit and assurance for the Report, and the relevant Verification Statement is placed at the end of the Report. The board of directors of Everbright International (“the Board”) had reviewed and approved the contents and scope of the Report, to ensure that the material environmental, social and governance (“ESG”) factors of the Company have been covered.

The Report (Chinese and English versions) is available at the corporate website of Everbright International (www.ebchinaintl.com) and the website of HKEx (www.hkex.com.hk). The Company welcomes all stakeholders and the public to provide valuable comments to info1@ebchinaintl.com in all aspects, joining hands towards sustainable development.

中國光大國際有限公司（「光大國際」或「本公司」，連同其附屬公司合稱「本集團」）為中國光大集團股份公司及香港聯合交易所有限公司（「港交所」）主板上市公司，股份代號：257。本集團為中國環保行業的領軍企業、亞洲最大的垃圾發電投資商和運營商、是中國首個一站式、全方位的環境綜合治理服務商，培育了一大批行業領先、具有國際水準的環保項目，主營業務包括垃圾發電、水環境治理、生物質綜合利用、危廢處置、光伏發電、風電、環保工程建設、技術研發、環保裝備製造、環保產業園的規劃及建設等。

我們相信清晰透明的報告是企業可持續發展管理的關鍵，因此每年持續向持份者披露本公司在環境、社會和管治方面的重要表現。二零一七年可持續發展報告（「本報告」）涵蓋了本公司於二零一七年一月一日至二零一七年十二月三十一日（「報告期」）的主要可持續發展數據和成效。本報告是根據全球報告倡議組織（「GRI」）準則：全面選項、其《電力行業披露文件》，以及港交所發布的《環境、社會及管治報告指引》而編寫。

除非另有註明，本報告所披露之內容是基於實質性評估、持份者訪談和其他相關的可持續發展報告指引而釐訂，涵蓋了於報告期內本公司設於香港的總部、深圳代表處及本公司擁有運營控制權的所有位於中國的運營環保項目之可持續發展表現；本報告所列之可持續發展表現只涵蓋本集團旗下環保能源、環境科技、裝備製造及國際業務板塊；環保水務和綠色環保業務板塊的可持續發展表現則分別於本公司旗下兩間附屬上市公司（分別為中國光大水務有限公司（於新加坡證券交易所有限公司（「新交所」）主板上市，上市編號：U9E）及中國光大綠色環保有限公司（於港交所主板上市，股份代號：1257））二零一七年的獨立可持續發展報告內披露。承包商、分包商工人及外判服務工人並不視為本公司員工的一部份。本報告的數據收集及分析乃根據相關之國際或當地指引及準則進行，包括使用清潔發展機制（「CDM」）核准的計算方法估算項目的溫室氣體排放。

本公司已委託香港品質保證局作為第三方審核機構為本報告的內容進行獨立審計及認證，相關核實聲明載於本報告末章。本報告亦經過光大國際董事會（「董事會」）之審閱及批准，從而確保其範疇涵蓋本公司主要的環境、社會及管治（「環境、社會及管治」）議題。

本報告（備有中英文版本）可透過光大國際企業網站（www.ebchinaintl.com）及港交所網站（www.hkex.com.hk）下載。本公司歡迎各持份者和公眾電郵至 info1@ebchinaintl.com 就各方面提供寶貴意見，以攜手推動可持續發展。

Everbright International has reached an important milestone in 2017. Riding on the opportunities arising from the country's rapid developments in ecological civilisation, the Company proceeded firmly and steadily, and achieved exceptional results across all aspects, creating a positive momentum for the next stage of growth. During the Reporting Period, the Group secured a total of 54 new projects and signed 3 supplemental agreements for projects' capacity expansion. These included 20 environmental energy projects and 2 supplemental agreements for 2 environmental energy projects' capacity expansion; 14 environmental water projects; 19 greentech projects plus 1 supplemental agreement for a greentech project's capacity expansion; as well as construction of Jiangsu Changzhou Equipment Manufacturing Project Phase III. The total investment of the new projects amounts to approximately RMB19,722,297,000. Both the number of projects and investment amount were the highest on record. With these, the Group further expanded its presence to 18 provinces and municipalities, covering over 120 locations in China, as well as overseas markets including Germany, Poland and Vietnam.

With the implementation of a number of important plans and policies related to environmental protection, including the "13th Five-Year Plan" for Renewable Energy Development, the "13th Five-Year Plan" for National Strategic Emerging Industries Development, and the "Belt and Road" Ecological and Environmental Cooperation Plan, a government-led ecological and environmental management system began to take shape, with industry players being the mainstay supported by participation from social organisations and the public. As a witness to and an explorer of China's environmental protection industry, the major business sectors of Everbright International, namely Environmental Energy, Environmental Water, Greentech, Envirotech, Equipment Manufacturing and International Business, all of which are growing concurrently, work together to become a leading player in the environmental protection industry. Along with the pursuit of development, the Company keeps tight control of various governance risks, and as the safeguard of the environmental and social responsibility. We continue to promote the environmental, safety, health and social responsibility ("ESHS") management system ("ESHS Management System") and risk management system ("Risk Management System"), which integrate safety, environmental and social responsibility into our daily operation, creating a healthy platform for sustainable development.

零一七年是光大國際具有里程碑意義的一年。配合國家大力發展生態文明建設的契機，本公司以堅實的步伐砥礪前行，各方面工作均取得顯著成效，為下一階段的發展創造良好勢頭。於報告期內，本集團共落實54個新項目及簽署3個項目調增規模的補充協議，其中包括20個環保能源項目、簽署2個環保能源項目調增規模的補充協議、14個環保水務項目、19個綠色環保項目及簽署1個綠色環保項目調增規模的補充協議以及擴建江蘇常州裝備製造項目三期，總投資約人民幣19,722,297,000元，項目總量與投資額均創歷史新高。業務版圖已延伸至國內18個省和直轄市、120多個地區以至遍及海外地區，包括德國、波蘭及越南。

隨著《可再生能源發展「十三五」規劃》、《「十三五」國家戰略新興產業發展規劃》、《「一帶一路」生態環境保護合作規劃》等多項環保規劃及政策的落實，一個以政府為主導、企業為主體、社會組織和公眾共同參與的環境治理體系正在逐漸成型。光大國際作為中國環保產業發展的見證者和探索者，旗下環保能源、環保水務、綠色環保、環境科技、裝備製造及國際業務板塊齊頭並進，致力共同邁向成為環保行業的翹楚。在謀求業務發展的同時，我們對各項管治的風險控制亦沒有鬆懈。我們持續推行環境、安全、健康及社會責任（「ESHS」）管理體系（「ESHS管理體系」）和風險管理體系（「風險管理體系」），將安全、環境、社會責任融入日常經營管理，為可持續發展提供一個健康的平台。

Environmental Protection

Waste-to-energy provides strong supports for environmental protection and sustainable development. Everbright International continuously devotes itself to the development of environmental protection industry, strives to strengthen management of projects in the preparatory stage and carries out construction works steadily, adhering to the principle of “maintaining stable operations and ensuring compliant emissions”. The Company’s Environmental Energy projects processed a total of 11,743,000 tonnes of household waste in 2017 and supplied approximately 3,432,697,000 kWh of on-grid green electricity, with an increase of 31% and 39% respectively when compared with 2016, avoiding approximately 4,590,000 tonnes of carbon dioxide equivalent emissions. In addition, we treated approximately 2,636,000 m³ of leachate, reducing chemical oxygen demand (COD) emissions by approximately 80,000 tonnes during the Reporting Period.

During the Reporting Period, the Company successfully achieved hourly disclosure of average emissions data taken from its continuous emissions monitoring network across all operating waste-to-energy projects on its corporate website. The Company also took the lead in setting the first weekend of each month as the “Open Day”, making a new leap forward again in information transparency and disclosure, setting a new benchmark for the environmental protection industry. All waste-to-energy projects completed requirements from the Ministry of Ecology and Environment (“MEE”), which included installation of continuous emissions monitoring system (“CEMS”), real-time display of pollutant emission and operating data, and online connection of the CEMS with MEE to ensure stable operation and emissions in compliance with standards.

致力環保

垃圾發電為環境保護和可持續發展提供了強大支持，而光大國際堅持以深耕環保行業為己任，致力強化籌建項目的管理，穩步推進在建工程，堅持以「穩定運行，達標排放」為運營原則。環保能源項目於二零一七年合共處理生活垃圾約11,743,000噸，提供綠色上網電量約3,432,697,000千瓦時，較二零一六年分別大幅上升約31%及39%，避免了二氧化碳當量排放約4,590,000噸。另外，我們於報告期內處理滲濾液約2,636,000立方米，減少了約80,000噸化學需氧量(COD)排放。

於報告期內，本公司成功實現於企業網站上每小時更新所有運營垃圾發電項目的煙氣在線監測均值。本公司並把每個月第一個週末設為公眾開放日，在信息透明化、公開化方面實現新的跨越，樹立了環保行業新的標竿。所有運營中的垃圾發電項目亦順利完成了環保部「裝、樹、聯」（安裝自動監控設備，樹立污染排放和運營數據實時顯示屏，實時數據與環保部門聯網）的工作要求，保障穩定運行和達標排放。

People-Oriented

Through implementation of “People-Oriented” talent strategy, Everbright International actively explores training as well as development opportunities for its employees, and invests huge resources to provide various trainings so as to promote employees’ career development. Through strategic management structure adjustment, remuneration system optimisation and provision of trainings for the management team on integrity and morality, we aim at expanding the backup talent pool, improving the overall staff quality, and enhancing the core competency of the cooperative development with professionals. The Company strives to provide employees with an ideal working environment and pursue principles such as equality as well as non-discrimination, which signify Everbright International’s commitment to corporate responsibility.

Technological Innovation

Research and development (“R&D”) of self-developed technology has provided strong technical support for Everbright International and laid a solid foundation for its sustainable development. In 2017, the Envirotech complex in Nanjing was fully put into use and successfully developed into a R&D platform for the Company. Operating as centre for R&D, design, technology management and international communications, and as a display of technological achievements, the complex makes a major contribution to research efficiency. During the Reporting Period, the Group reinforced its strategic partnership with Zhejiang University through the official co-founding of the “National Engineering Lab of Waste Incineration and Equipment”, through which the two sides cooperated on ultra-low flue gas emissions from waste incineration as well as optimisation of the computational fluid dynamics (“CFD”) applications for biomass grate furnaces, so as to enhance its holistic competitiveness. Everbright International will continue to launch cutting-edge products that demonstrate its technological strengths in environmental protection equipment manufacturing in China, which shows that it not only commands a top-tier position in the domestic environmental protection industry, but also has successfully strengthened its influence in the industry abroad.

以人為本

透過深化「以人為本」的人才戰略，光大國際積極培養人才，並提供發展機會。本公司投放大量資源以提供各種培訓，從而推動員工的事業發展。透過策略性的管理架構調整，優化薪酬體系，及為管理層提供廉潔與道德培訓，我們旨在擴大人才儲備庫，提升員工的整體素質，以專業提升企業的核心競爭力。本公司致力為員工提供理想的工作環境，奉行平等、非歧視等原則，充分體現光大國際對企業責任的承擔。

科技創新

自主科技的研究和開發（「研發」）一直為光大國際提供堅強有力的技術支撐，並為本公司可持續發展奠下穩固的根基。二零一七年，本公司旗下南京環境科技大樓全面啟用，集「研發中心」、「設計中心」、「科技管理中心」、「國際交流中心」、「科技成果展示中心」功能於一體，團隊的科研效率得到顯著提升。報告期內，本集團與浙江大學深化戰略合作關係，共同成立「垃圾焚燒技術與裝備國家工程實驗室」，雙方就垃圾焚燒煙氣超低排放、生物質爐排爐計算流體力學（「CFD」）應用優化等技術展開合作，提升綜合實力。光大國際將繼續推出代表中國環保裝備領域核心技術的領先產品，不僅佔據國內環保行業的技術制高點，在海外的行業影響力也日漸提升。

Caring for the Community

Through driving the whole corporation to promote community activities on topics such as education, environmental friendliness, energy conservation and ecological protection, Everbright International actively shoulders on social responsibility, enhances connections with the community and contributes to the society. During the Reporting Period, we organised various environmental activities to celebrate the World Environment Day 5 June, and sponsored “Earth Hour” campaign with goals to raise public awareness towards environmental protection and promote sustainable development. In addition, “Everbright Environmental Protection Charitable Foundation” and “Everbright International Environmental Protection Charitable Foundation” demonstrate Everbright International’s devotions to social and environmental responsibilities as well as transmission of hope with an aim to connect with surrounding communities from various aspects and make contributions.

The Company’s efforts in sustainable development are well recognised. We have been selected as a constituent stock of the Hang Seng Corporate Sustainability Index for the fourth consecutive year, and included in the Dow Jones Sustainability Index for the second consecutive year. Furthermore, we are proud to be added to the FTSE4Good Index for the first time in 2017. The international recognition of the Company’s sustainability performance is a reflection of how we have devoted ourselves to the development of environmental protection business, as well as a compliment on our efforts made to invest and involve in social sustainability. We also pay ceaseless effort to promote and align with the United Nations’ 17 Sustainable Development Goals so as to promote improvements in social, environmental and economic efficiencies as well as enhancing green development. With eyes on the future, we will continue in upholding the concept of “Taking Quality as the Top Mission and Keeping Efficiency as the Priority with Support by Scale” to pursue our development in a market-oriented, international and professional manner. We will also endeavour to gauge the national market’s pulse on green development and leverage on our advantaged businesses, thus contributing to environmental protection and sustainable development of China and the world.

WANG TIANYI

Executive Director and Chief Executive Officer

7 June 2018

關懷社區

透過帶動企業上下進行各項教育、環境、節能、生態保護等社區活動，光大國際積極承擔社會責任，增強與社區的聯繫，回饋社群。我們於報告期內舉行多項環保活動以響應「六·五世界環境日」，以及贊助「地球一小時」活動，旨在提高公眾的環保意識，推動可持續發展。此外，「光大環保愛心基金會」及「光大國際環保公益基金」是光大國際彰顯社會責任、環境責任以及傳遞希望的實踐，寄望從多方面聯繫周邊群體，為社會作出貢獻。

本公司在可持續發展方面的努力有目共睹。我們連續四年獲納入恒生可持續發展企業指數成份股及連續兩年獲納入道瓊斯可持續發展指數，二零一七年更首次獲納入富時社會責任指數。本公司在可持續發展方面的表現得到國際認可，肯定了我們在致力發展環保業務的努力，亦對我們大力投入和積極參與社會的可持續發展給予表彰。我們更全力推動並遵循聯合國的17項可持續發展目標，從而推動實現社會、環境、經濟效益的同步提升，並促進綠色發展。放眼未來，我們將繼續堅持「質量第一、效益優先、規模助力」，透過市場化、國際化、專業化發展道路，並緊握國家對綠色發展的脈搏，進一步突出優勢產業，積極探索多業並舉，為中國、亞洲乃至全球環保事業和可持續發展作出貢獻。

王天義

執行董事兼行政總裁

二零一八年六月七日

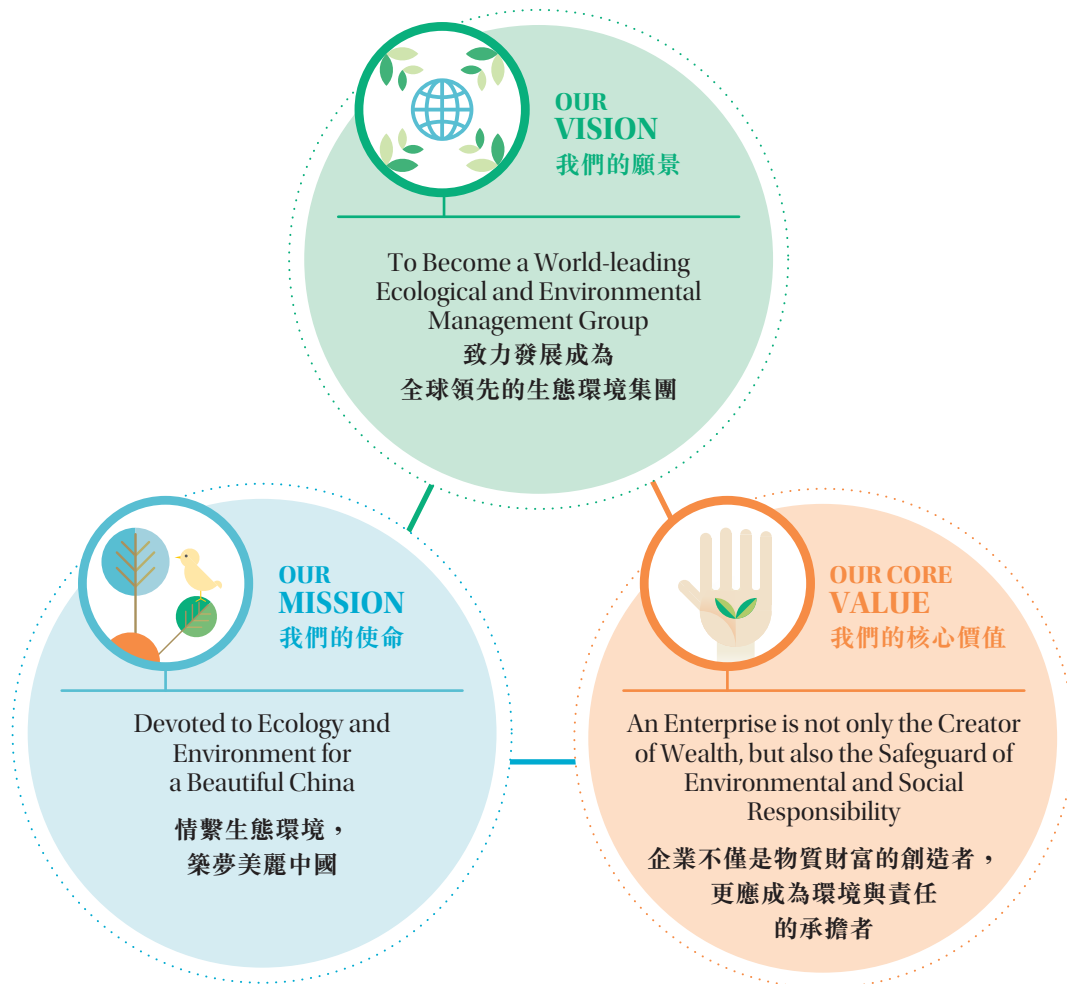
We promote clean energy to build
a Green China

推廣潔淨能源，構築綠色中國



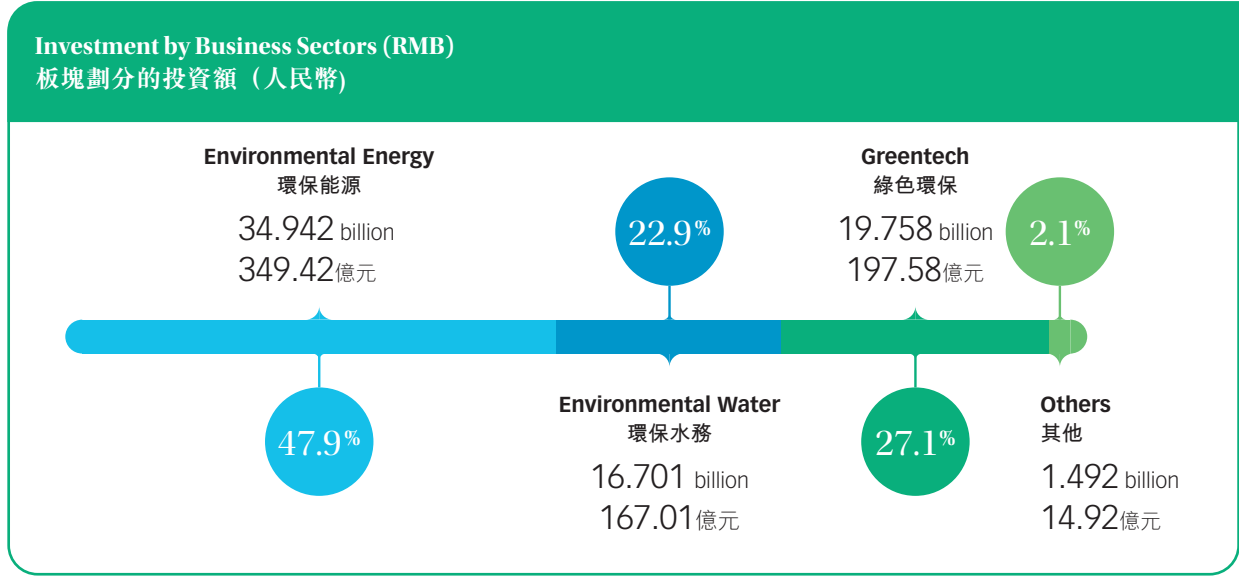
Everbright International, a flagship company in the industrial investment sector of China Everbright Group, is listed on the Main Board of HKEx and is a one-stop integrated environmental solution provider. Through building a series of demonstration projects and actively implementing environmental protection principles with a strong sense of social responsibility, the Company fully mobilises our major business sectors of Environmental Energy, Environmental Water, Greentech, Envirotech, Equipment Manufacturing and International Business, covering waste-to-energy, water environment management, biomass integrated utilisation, hazardous waste treatment, solar energy and wind power, environmental protection engineering, technological R&D, environmental protection equipment manufacturing, plus the planning and construction of environmental protection industrial parks, etc..

光大國際為中國光大集團旗下實業投資之旗艦公司，亦是港交所主板上市公司，為一站式和全方位的環境綜合治理服務商。透過推進一系列示範項目，以高度的社會責任感積極落實環保理念。本公司全面推動旗下環保能源、環保水務、綠色環保、環境科技、裝備製造及國際業務的發展，範疇包括垃圾發電、水環境治理、生物質綜合利用、危廢處置、光伏發電及風電、環保工程建設、技術研發、環保裝備製造、環保產業園的規劃及建設等。



Six Business Sectors Striving to Develop
六大業務板塊，競相發展

<p>Environmental Energy 環保能源</p> <ul style="list-style-type: none"> Waste-to-energy 垃圾發電 Methane-to-energy 沼氣發電 Sludge Treatment and Disposal 污泥處理處置 Food Waste Treatment 餐廚垃圾處理 Environmental Protection Industrial Parks 環保產業園 	<p>Environmental Water 環保水務</p> <ul style="list-style-type: none"> Water Environment Management 水環境綜合治理 Sponge City Construction 海綿城市建設 River-basin Ecological Restoration 流域治理 Waste Water Treatment 污水處理 Water Supply 供水 Reusable Water 中水回用 Waste Water Source Heat Pump 污水源熱泵 Sludge Treatment and Disposal 污泥處理處置 Listed company on the Mainboard of SGX (stock code: U9E) 新交所主板上市公司 (上市編號: U9E) 	<p>Greentech 綠色環保</p> <ul style="list-style-type: none"> Integrated Biomass Utilisation 生物質綜合利用 Hazardous Waste Treatment 危廢處置 Solar Energy and Wind Power 光伏發電及風電 Listed company on the Main Board of HKEx (stock code: 1257) 港交所主板上市公司 (股份代號: 1257)
<p>Envirotech 環境科技</p> <ul style="list-style-type: none"> Technology Management 科技管理 Technology R&D 技術研發 Engineering Design 工程設計 Analysis and Testing 分析檢測 	<p>Equipment Manufacturing 裝備製造</p> <ul style="list-style-type: none"> Equipment Manufacturing 裝備製造 Technology Development 技術開發 Technology Consultancy 技術諮詢 Technical Services 技術服務 	<p>International Business 國際業務</p> <ul style="list-style-type: none"> Overseas Greenfield Investment 海外綠地投資 Mergers and Acquisitions ("M&As") 併購 Exporting Technologies 技術輸出



Direct Economic Value Generated and Distributed to the Concerned Stakeholders by the Group in 2017

二零一七年本集團所產生及分配予相應持份者的直接經濟價值

	Economic value ⁽¹⁾ 經濟價值 ⁽¹⁾	Beneficiary 獲益持份者	Amount (HK\$'000) 金額(港幣千元)
Direct economic value generated 產生的直接經濟價值	Revenue 收益	Investors, clients 投資者、客戶	20,043,116
	Other income 其他收益		555,232
	Other income and gains/(losses), net 其他收入及收益/(虧損)淨額		56,936
Economic value distributed 分配的經濟價值	Staff costs 員工開支	Employees 員工	1,229,145
	Other costs ⁽²⁾ 其他成本 ⁽²⁾	Business partners, suppliers 商業夥伴、供應商	12,538,315
	Finance costs 財務費用	Lenders 借款人	938,280
	Dividends 股息	Investors 投資者	1,075,852
	Taxes ⁽³⁾ 稅項 ⁽³⁾	Government 政府	386,921
	Profit attributable to non-controlling interest 非控股權益應佔盈利	Business partners 商業夥伴	541,857
	Charitable donations ⁽⁴⁾ 慈善捐款 ⁽⁴⁾	Local communities 當地社區	24,615
Economic value retained 留存的經濟價值	Retained for Everbright International's sustainable operation and development 留存作光大國際的可持續運營和發展	Investors, clients, employees 投資者、客戶、員工	3,920,299

Notes:

- (1) Includes all operations of the Group
- (2) Represents other costs, share of profits of joint ventures and share of loss of associates but excludes depreciation and amortisation for the year
- (3) Represents current income tax but excludes deferred tax for the year
- (4) Cash donation in 2017 amounted to HK\$24,124,000

附註：

- (1) 包括本集團所有業務
- (2) 代表年度的其他成本、所佔合營企業盈利及所佔聯營公司虧損，但不包括年度的折舊及攤銷
- (3) 代表本期所得稅，但不包括本年度的遞延稅項
- (4) 其中二零一七年現金捐款為港幣24,124,000元

As at 31 December 2017, the Group has secured a total of 268 environmental protection projects, spanning across over 120 locations, with a presence in 18 provinces and municipalities in China, as well as in overseas markets such as Germany, Poland and Vietnam.

截至二零一七年十二月三十一日，本集團已落實的環保項目遍布國內18個省及直轄市、逾120個地區，遠至德國、波蘭和越南等海外市場，共268個環保項目。

Locations of the Group's projects (overseas markets)
本集團項目所在區域 (海外地區)

Germany
德國



Poland
波蘭



Vietnam
越南



Singapore
新加坡



Newly secured projects in 2017

二零一七年新增項目

Environmental Energy 環保能源

- | | | |
|----|--|---------------------|
| 1 | Jiangsu Siyang Waste-to-energy Project Phase I | 江蘇泗陽垃圾發電項目一期 |
| 2 | Sichuan Leshan Waste-to-energy Project | 四川樂山垃圾發電項目 |
| 3 | Guangdong Huidong Waste-to-energy Project Phase II | 廣東惠東垃圾發電項目二期 |
| 4 | Jiangsu Baoying Waste-to-energy Project | 江蘇寶應垃圾發電項目 |
| 5 | Zhejiang Quzhou Waste-to-energy Project | 浙江衢州垃圾發電項目 |
| 6 | Shandong Qihe Waste-to-energy Phase I | 山東齊河垃圾發電項目一期 |
| 7 | Shenyang Daxin Waste-to-energy Project | 瀋陽大辛垃圾發電項目 |
| 8 | Hainan Lingshui Waste-to-energy Project Phase I | 海南陵水垃圾發電項目一期 |
| 9 | Henan Ruzhou Waste-to-energy Project Phase I | 河南汝州垃圾發電項目一期 |
| 10 | Zhejiang Haiyan Waste-to-energy Project | 浙江海鹽垃圾發電項目 |
| 11 | Shandong Rizhao Waste-to-energy Phase II | 山東日照垃圾發電項目二期 |
| 12 | Hainan Tunchang Waste-to-energy Project Phase I | 海南屯昌垃圾發電項目一期 |
| 13 | Hunan Miluo Waste-to-energy Project Phase I | 湖南汨羅垃圾發電項目一期 |
| 14 | Shaanxi Fuping Waste-to-energy Project Phase I (supplementary agreement) | 陝西富平垃圾發電項目一期 (補充協議) |
| 15 | Shandong Heze Waste-to-energy Project (supplementary agreement) | 山東荷澤垃圾發電項目 (補充協議) |
| 16 | Jiangsu Yixing Waste-to-energy Project Phase II | 江蘇宜興垃圾發電項目二期 |
| 17 | Hainan Sanya Food Waste Treatment Project Phase I and upgrade | 海南三亞餐廚垃圾處理項目一期及提標改造 |
| 18 | Hainan Lingshui Food Waste Treatment Project Phase I | 海南陵水餐廚垃圾處理項目一期 |
| 19 | Henan Ruzhou Food Waste Treatment Project Phase I | 河南汝州餐廚垃圾處理項目一期 |
| 20 | Jiangsu Wujiang Food Waste Treatment Project | 江蘇吳江餐廚垃圾處理項目 |
| 21 | Henan Ruzhou Sludge Treatment and Disposal Project Phase I | 河南汝州污泥處理處置項目一期 |
| 22 | Henan Sanya Sludge Treatment and Disposal Project Phase II | 海南三亞污泥處理處置項目二期 |

Greentech 綠色環保

- | | | |
|----|--|---------------------------------|
| 1 | Jiangsu Lianshui Biomass Electricity and Heat Cogeneration Project | 江蘇漣水生物質熱電聯供項目 |
| 2 | Hubei Zhongxiang Integrated Biomass and Waste-to-Energy Project (Biomass) | 湖北鍾祥生物質及垃圾發電一體化項目 (生物質) |
| 3 | Hubei Zhongxiang Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy) | 湖北鍾祥生物質及垃圾發電一體化項目 (垃圾發電) |
| 4 | Henan Sheqi Integrated Biomass and Waste-to-Energy Project (Biomass) | 河南社旗生物質及垃圾發電一體化項目 (生物質) |
| 5 | Henan Sheqi Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy) | 河南社旗生物質及垃圾發電一體化項目 (垃圾發電) |
| 6 | Anhui Huaiyuan Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy) | 安徽懷遠生物質及垃圾發電一體化項目 (垃圾發電) |
| 7 | Shandong Wendeng Biomass Electricity and Heat Cogeneration Project | 山東文登生物質熱電聯供項目 |
| 8 | Anhui Guoyang Biomass Electricity and Heat Cogeneration Project | 安徽渦陽生物質熱電聯供項目 |
| 9 | Henan Zhecheng Integrated Biomass and Waste-to-Energy Project (Biomass) | 河南柘城生物質及垃圾發電一體化項目 (生物質) |
| 10 | Henan Zhecheng Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy) | 河南柘城生物質及垃圾發電一體化項目 (垃圾發電) |
| 11 | Shandong Yiyuan Integrated Biomass and Waste-to-Energy Project (Biomass) | 山東沂源生物質及垃圾發電一體化項目 (生物質) |
| 12 | Shandong Yiyuan Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy) | 山東沂源生物質及垃圾發電一體化項目 (垃圾發電) |
| 13 | Jiangsu Huaiyin Integrated Biomass and Waste-to-Energy Project (Waste-to-Energy) (supplementary agreement) | 江蘇淮陰生物質及垃圾發電一體化項目 (垃圾發電) (補充協議) |
| 14 | Jiangsu Suqian Hazardous Waste Landfill Project Phase II | 江蘇宿遷危險廢物填埋項目二期 |
| 15 | Jiangsu Yancheng Rigid Structure Hazardous Waste Landfill Project Phase I | 江蘇鹽城危險廢物結構填埋項目一期 |
| 16 | Shandong Laiyang Integrated Industrial Waste Treatment Project Phase I | 山東萊陽工業廢物綜合處置項目一期 |
| 17 | Shandong Linshu Hazardous Waste Landfill Project Phase I | 山東臨沭危險廢物填埋項目一期 |
| 18 | Jiangsu Guanyun Hazardous Waste Landfill Project Phase II | 江蘇灌雲危險廢物填埋項目二期 |
| 19 | Jiangxi Guixi Integrated Industrial Waste Treatment Project | 江西省貴溪危險廢物綜合處置項目 |
| 20 | Shandong Heze Dongming Integrated industrial Waste Treatment Project | 山東荷澤東明危險廢物綜合處置項目 |

Locations of the Group's projects
(inland provinces)
本集團項目所在區域 (內陸省份)

Locations of the Group's projects
(coastal provinces)
本集團項目所在區域 (沿海省份)

Environmental Water 環保水務

- | | |
|--|--|
| <ol style="list-style-type: none"> 1 Suizhou High-tech Industrial Park Piaoshui and Fuhe River Basin Integrated Water Environment Restoration PPP Project 2 Nanning Shuitang River Integrated Restoration PPP Project 3 Jiangyin Chengxi Waste Water Treatment Project Phase III 4 Xinyi City Waste Water Treatment Project Phase III 5 Lvshun Bailanzi Waste Water Treatment Project Upgrading 6 Dalian Chunliuhe Waste Water Treatment Project Phase II Upgrading 7 Dalian Quanshui Waste Water Treatment Project Upgrading 8 Zibo Zhoucun Waste Water Treatment Project Phase I Upgrading 9 Binzhou Development Zone Waste Water Treatment Project Phase I Upgrading 10 Ji'nan Huashan Waste Water Treatment Project 11 Ju County Chengbei Waste Water Treatment Project Upgrading 12 Dezhou Lingcheng Waste Water Pipeline Network PPP Project 13 Zibo Sludge Treatment and Disposal Project 14 Ji'nan Zhangqiu Urban-Rural Integration Water Supply Project | <p>隨州高新技術產業園區漂水及府河流域水環境綜合整治PPP項目</p> <p>南寧水塘江綜合整治工程PPP項目</p> <p>江陰澄西污水處理項目三期</p> <p>新沂城市污水處理項目三期</p> <p>旅順柏嵐子污水處理項目提標改造</p> <p>大連春柳河污水處理項目二期提標改造</p> <p>大連泉水污水處理項目提標改造</p> <p>濰博周村污水處理項目一期提標改造</p> <p>濱州開發區污水處理項目一期提標改造</p> <p>濟南華山水質淨化項目</p> <p>莒縣城北污水處理項目提標改造</p> <p>德州陵城污水管網PPP項目</p> <p>濰博污泥處理處置項目</p> <p>濟南章丘區城鄉供水一體化項目</p> |
|--|--|

China
中國

REPRESENTATIVE OFFICE
代表處
Chengdu
成都

REPRESENTATIVE OFFICE
代表處
Beijing
北京

REPRESENTATIVE OFFICE
代表處
Shenzhen
深圳

HEADQUARTER
總部
Hong Kong
香港

Environmental Energy

環保能源

75

Waste-to-energy Projects
垃圾發電項目

3

Sludge Treatment and Disposal Projects
污泥處理處置項目

6

Food Waste Treatment Projects
餐廚垃圾處理項目

2

Methane-to-energy Projects
沼氣發電項目



12

Environmental Protection Industrial Parks
環保產業園

19 Projects completed construction and commenced operation in 2017
二零一七年建成投運項目

20 Projects under construction in 2017
二零一七年在建項目

17 Projects in the preparatory stage in 2017
二零一七年籌建項目

The Company's Environmental Energy business includes waste-to-energy, methane-to-energy, sludge treatment and disposal as well as food waste treatment, in which stable operation, emissions in compliance with standards, industry-leading process technology together with construction standards are the key to our successful market development. For all projects under construction or in operations, we play a demonstrative role in the industry. The standards and efficiency of our newly constructed waste-to-energy projects have been significantly improved through our successful applications of grate furnaces, flue gas purification systems and the third generation of leachate treatment technology. As at 31 December 2017, the Company had secured 75 waste-to-energy projects, 2 methane-to-energy projects, 3 sludge treatment and disposal projects, and 6 food waste treatment projects, with a total investment of approximately RMB34.942 billion.



本公司的環保能源業務包括垃圾發電、沼氣發電、污泥處理處置及餐廚垃圾處理等項目，其穩定運營、達標排放、行業領先的工藝技術以及建設標準均是市場拓展成功的關鍵。我們所有的建設及運營項目始終堅持創建行業標杆示範，隨著爐排、煙氣淨化系統、第三代滲濾液處理技術的成功運用，新建成的垃圾發電項目在標準及效益上均大大提升。截至二零一七年十二月三十一日，本公司旗下共有75個垃圾發電項目、2個沼氣發電項目、3個污泥處理處置項目及6個餐廚垃圾處理項目，總投資額達約人民幣349.42億元。



Other than waste-to-energy as our core business, we have taken the lead in launching 12 Chinese-styled environmental protection industrial parks, becoming the first to create and to put the environmental protection industrial park model into practice. Based on the principle of "Integrated Planning, Logical Arrangements, Efficient Land Utilisation and Centralised Handling", we have made full use of local resources within the parks, shared infrastructure and optimised the use of valuable land resources. The goal of this exercise was to achieve integrated solid waste recycling, to increase the levels of energy conservation and emissions reduction, to facilitate centralised management and control by government and enterprises, and to ultimately achieve zero pollution discharge.



除了垃圾發電作為我們的核心業務外，我們亦率先推出12個具有中國特色的環保產業園，成為環保產業園模式的首創者和踐行者。基於「統籌規劃，合理布局，節約土地，集中處置」的理念，我們充分利用園區內資源，共用基礎設施，完善土地資源的使用，實現固體廢物綜合循環利用，提高整體節能減排效益，便於政府與企業的集中管控，最終實現污染零排放。



2017 Environmental Energy's Projects Operation Overview

二零一七年環保能源項目運營情況一覽

Household waste processed (tonne) ⁽¹⁾		
生活垃圾處理量 (噸) ⁽¹⁾		11,743,000
On-grid green electricity (kWh) ⁽¹⁾		
綠色上網電量 (千瓦時) ⁽¹⁾		3,432,697,000
On-grid green electricity per tonne of waste processed (kWh/tonne) ⁽²⁾⁽³⁾		
經處理垃圾綠色上網電量 (千瓦時/噸) ⁽²⁾⁽³⁾		292.32
Number of clients 客戶數目	Government clients 政府客戶	31
	Commercial clients 商業客戶	80
Total length of transmission lines (km) ⁽²⁾		
輸電線路總長度 (公里) ⁽²⁾	Ground 地上	161.21
	Underground 地下	46.53
Total contract capacity 總合約規模	Annual household waste processing capacity of approximately 24,108,250 tonnes; annual on-grid green electricity of approximately 7,551,890,000 kWh; annual sludge treatment capacity of approximately 73,000 tonnes; annual food waste treatment capacity of approximately 237,250 tonnes 年處理生活垃圾量約24,108,250噸、年綠色上網電量約7,551,890,000千瓦時、年處理污泥約73,000噸以及年處理餐廚垃圾約237,250噸	

Notes:

- (1) Figures are rounded to the nearest thousand
- (2) Figures are rounded to two decimal places
- (3) The boundary covers all Environmental Energy's operating waste-to-energy projects in China

附註：

- (1) 數字調整至最接近的千位數表示
- (2) 數字調整至最接近的小數點後兩位表示
- (3) 邊界包括所有環保能源位於中國的運營垃圾發電項目

Waste-to-Energy System — Process Flow Diagram 垃圾發電系統 — 工藝流程圖

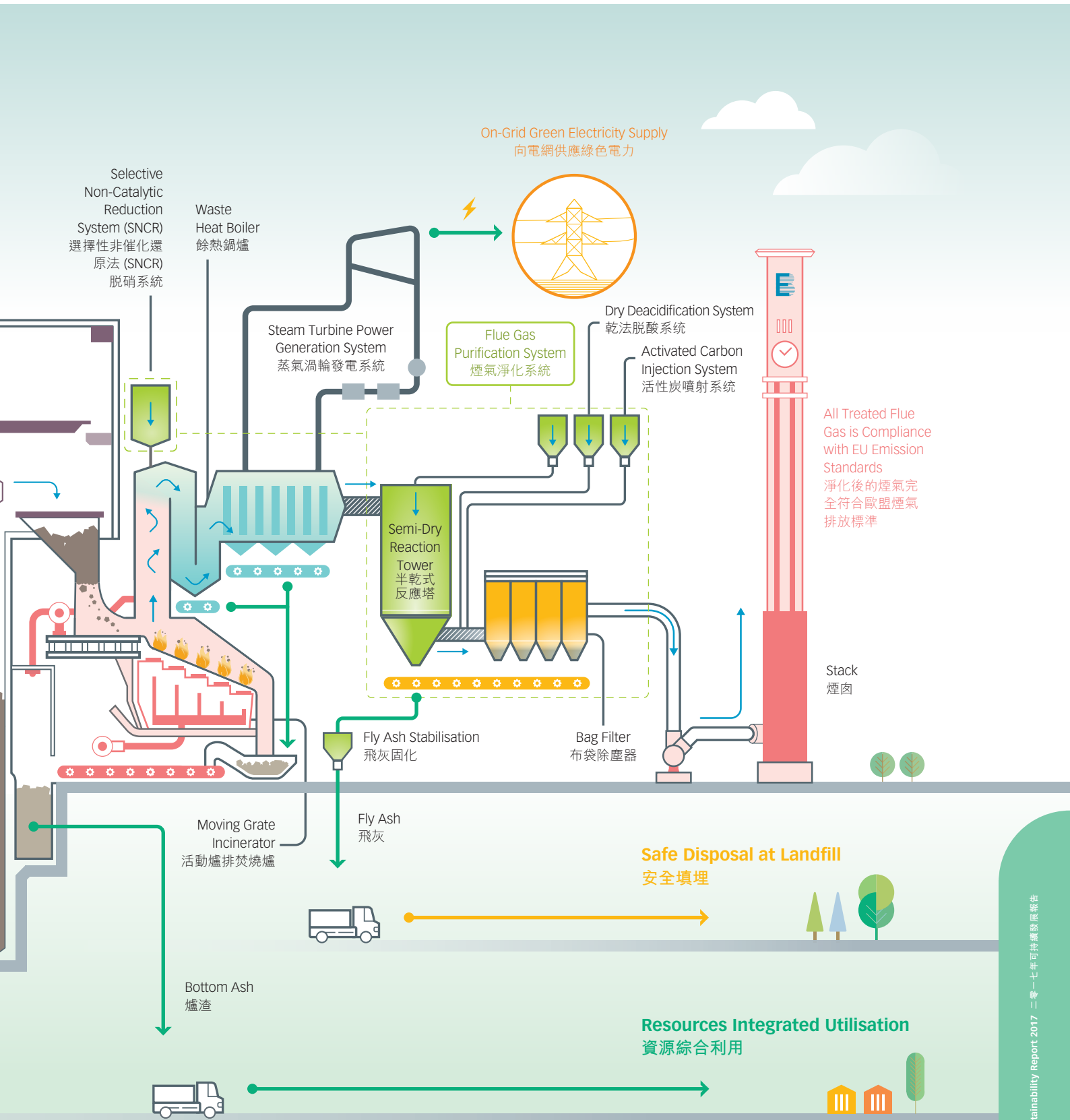
● Waste 垃圾
● Bottom Ash 爐渣

Real-Time Disclosure of Online
Emissions Monitoring Data
實時披露煙氣在線監測數據

Household Waste
生活垃圾

Waste
Storage Pit
垃圾倉

Leachate is Properly Treated for Reuse or
Discharged in Accordance with Applicable Standards
滲濾液經處理後回用或達標排放



Project Overview

項目概覽

Projects in Operation (Waste-to-energy)

投運項目（垃圾發電）

Projects	項目	Daily Waste Processing Capacity 日垃圾處理規模 (tonnes) (噸)
1 Suzhou Waste-to-energy Project Phase I	蘇州垃圾發電項目一期	1,050
2 Suzhou Waste-to-energy Project Phase II	蘇州垃圾發電項目二期	1,000
3 Suzhou Waste-to-energy Project Phase III	蘇州垃圾發電項目三期	1,500
4 Yixing Waste-to-energy Project Phase I	宜興垃圾發電項目一期	500
5 Jiangyin Waste-to-energy Project Phase I	江陰垃圾發電項目一期	800
6 Jiangyin Waste-to-energy Project Phase II	江陰垃圾發電項目二期	400
7 Changzhou Waste-to-energy Project	常州垃圾發電項目	800
8 Zhenjiang Waste-to-energy Project Phase I	鎮江垃圾發電項目一期	1,000
9 Ji'nan Waste-to-energy Project	濟南垃圾發電項目	2,000
10 Suqian Waste-to-energy Project	宿遷垃圾發電項目	600
11 Ningbo Waste-to-energy Project Phase I	寧波垃圾發電項目一期	1,000
12 Nanjing Waste-to-energy Project Phase I	南京垃圾發電項目一期	2,000
13 Pizhou Waste-to-energy Project Phase I	邳州垃圾發電項目一期	600
14 Sanya Waste-to-energy Project Phase I	三亞垃圾發電項目一期	700
15 Shouguang Waste-to-energy Project Phase I	壽光垃圾發電項目一期	600
16 Zhenjiang Waste-to-energy Project Phase II	鎮江垃圾發電項目二期	400
17 Boluo Waste-to-energy Project Phase I	博羅垃圾發電項目一期	700
18 Weifang Waste-to-energy Project Phase I	濰坊垃圾發電項目一期	1,000
19 Changzhou Xinbei Waste-to-energy Project Phase I	常州新北垃圾發電項目一期	800
20 Rizhao Waste-to-energy Project Phase I	日照垃圾發電項目一期	600

Projects	項目	Daily Waste Processing Capacity 日垃圾處理規模 (tonnes) (噸)
21 Ningbo Waste-to-energy Project Phase II	寧波垃圾發電項目二期	500
22 Sanya Waste-to-energy Project Phase II	三亞垃圾發電項目二期	350
23 Yiyang Waste-to-energy Project	益陽垃圾發電項目	800
24 Wujiang Waste-to-energy Project	吳江垃圾發電項目	1,500
25 Tengzhou Waste-to-energy Project Phase I	滕州垃圾發電項目一期	700
26 Pei County Waste-to-energy Project Phase I	沛縣垃圾發電項目一期	500
27 Pingdu Waste-to-energy Project Phase I	平度垃圾發電項目一期	600
28 Nanjing Waste-to-energy Project Phase II	南京垃圾發電項目二期	2,000
29 Ma'anshan Waste-to-energy Project Phase I	馬鞍山垃圾發電項目一期	800
30 Suqian Waste-to-energy Project Phase II	宿遷垃圾發電項目二期	400
31 Laiwu Waste-to-energy Project Phase I	萊蕪垃圾發電項目一期	600
32 Dongguan Machong Waste-to-energy Project (entrusted construction & operation)	東莞麻涌垃圾發電項目 (委託建設及運營)	1,500
33 Suining Waste-to-energy Project	遂寧垃圾發電項目	800
34 Weifang Waste-to-energy Project Phase II	濰坊垃圾發電項目二期	500
35 Gaochun Waste-to-energy Project	高淳垃圾發電項目	500
36 Xintai Waste-to-energy Project	新泰垃圾發電項目一期	600
37 Ju County Waste-to-energy Project Phase I	莒縣垃圾發電項目一期	500
38 Wuxi Xidong Waste-to-energy Project (restoration & entrusted operation)	無錫錫東垃圾發電項目 (修復及委託運營)	2,000
39 Zoucheng Waste-to-energy Project	鄒城垃圾發電項目	600
40 Lankao Waste-to-energy Project	蘭考垃圾發電項目	500
41 Hangzhou Waste-to-energy Project	杭州垃圾發電項目	3,000
42 Xinzheng Waste-to-energy Project	新鄭垃圾發電項目	1,000
43 Yongzhou Waste-to-energy Project	永州垃圾發電項目	800
Total	總計	39,100

Projects under Construction (Waste-to-energy)

在建項目（垃圾發電）

	Projects	項目	Daily Waste Processing Capacity 日垃圾處理規模 (tonnes) (噸)
1	Huidong Waste-to-energy Project Phase I	惠東垃圾發電項目一期	600
2	Jiangyin Waste-to-energy Project Phase III	江陰垃圾發電項目三期	1,000
3	Laiyang Waste-to-energy Project	萊陽垃圾發電項目	600
4	Linshu Waste-to-energy Project Phase I	臨沭垃圾發電項目一期	500
5	Zouping Waste-to-energy Project Phase I	鄒平垃圾發電項目一期	700
6	Fei County Waste-to-energy Project Phase I	費縣垃圾發電項目一期	600
7	Ji'nan Waste-to-energy Plant Expansion Project	濟南垃圾發電廠擴建項目	750
8	Chun'an Waste-to-energy Project Phase I	淳安垃圾發電項目一期	300
9	Huidong Waste-to-energy Project Phase II	惠東垃圾發電項目二期	600
10	Vietnam Can Tho Waste-to-energy Project	越南芹苴垃圾發電項目	400
11	Changzhou Xinbei Waste-to-energy Phase II	常州新北垃圾發電項目二期	700
12	Boluo Waste-to-energy Project Phase II	博羅垃圾發電項目二期	350
13	Shenyang Daxin Waste-to-energy Project	瀋陽大辛垃圾發電項目	3,000
14	Haiyan Waste-to-energy Project Phase I	海鹽垃圾發電項目一期	800
15	Quzhou Waste-to-energy Project	衢州垃圾發電項目	1,500
16	Baoying Waste-to-energy Project	寶應垃圾發電項目	500
17	Rizhao Waste-to-energy Project Phase II	日照垃圾發電項目二期	400
18	Xiangxiang Waste-to-energy PPP Project	湘鄉垃圾發電PPP項目	500
19	Siyang Waste-to-energy Project Phase I	泗陽垃圾發電項目一期	600
	Total	總計	14,400

Projects in Operation (Methane-to-energy)

投運項目（沼氣發電）

Projects	項目	Average Annual Electricity Generation 年均發電量 (kWh) (千瓦時)
1	Suzhou Methane-to-energy Project Phase I	18,000,000
2	Suzhou Methane-to-energy Project Phase II	9,000,000
Total	總計	27,000,000

Projects in Operation (Sludge Treatment and Disposal)

投運項目（污泥處理處置）

Project	項目	Daily Processing Capacity 日處理規模 (tonnes) (噸)
1	Sanya Sludge Treatment and Disposal Project Phase I	50
Total	總計	50

Projects under Construction (Sludge Treatment and Disposal)

在建項目（污泥處理處置）

Project	項目	Daily Processing Capacity 日處理規模 (tonnes) (噸)
1	Sanya Sludge Treatment and Disposal Project Phase II	100
Total	總計	100

Projects in Operation (Food Waste Treatment)

投運項目（餐廚垃圾處理）

Projects	項目	Daily Processing Capacity 日處理規模 (tonnes) (噸)
1	Laiwu Food Waste Treatment Project	100
2	Sanya Food Waste Treatment Project Phase I & upgrade	100
3	Suqian Food Waste Treatment Project Phase I	100
Total	總計	300

Environmental Protection Industrial Parks

環保產業園

Projects	項目
1 Suzhou Everbright National Demonstration Veinous Industrial Park	蘇州市光大國家靜脈產業示範園
2 Suqian Everbright Environmental Protection Industrial Park	宿遷市光大環保產業園
3 Changzhou Everbright Environmental Protection Industrial Park	常州市光大環保產業園
4 Weifang Everbright Environmental Protection Industrial Park	濰坊市光大環保產業園
5 Yixing Everbright Environmental Protection Veinous Industrial Park	宜興市光大環保靜脈產業園
6 Nanjing Everbright Environmental Protection Veinous Industrial Park	南京市光大環保靜脈產業園
7 Zhenjiang New District Everbright Environmental Protection Industrial Park	鎮江新區光大環保產業園
8 Lianyungang Xuwei New District Environmental Protection Veinous Industrial Park	連雲港徐圩新區環保靜脈產業園
9 Ganzhou Everbright Environmental Protection Veinous Industrial Park	贛州光大環保靜脈產業園
10 Xinyi Environmental Protection Industrial Park	新沂環保產業園
11 Lankao Environmental Protection Veinous Industrial Park	蘭考環保靜脈產業園
12 Ruzhou Environmental Protection Veinous Industrial Park	汝州靜脈產業園

Envirotech

By adhering to the principle of driving development with technology and innovation, the Company's Envirotech business sector was fully committed to enhancing the core technological competencies and scientific technologies, seeking to transform the Company from a traditional company into a modern high-tech enterprise. The Envirotech complex in Nanjing was fully put into use and successfully developed into a R&D platform for the Company and operates as a centre for R&D, design, technology management and international communications, and as a display of technological achievements, striving to enhance the lead with technological innovation and comprehensively promote a new round of development.



During the Reporting Period, we reinforced our strategic partnership with Zhejiang University through the official co-founding of the "National Engineering Lab of Waste Incineration and Equipment" which facilitated the cooperation of two parties on ultra-low flue gas emissions from waste incineration and optimisation of CFD applications for biomass grate furnaces. Apart from this, the Company also strengthened our industrial-academic partnerships with renowned local and overseas academic institutions and scientific research institutes, including Tsinghua University, Tongji University and Nanyang Technological University in Singapore.



環境科技

本公司環境科技板塊以「科技引領，創新發展」為理念，致力以科技引領推動企業發展，實現從傳統企業轉變為現代化高科技企業。作為本公司研發基地的南京環境科技大樓已全面啟用，集「研發中心」、「設計中心」、「科技管理中心」、「國際交流中心」、「科技成果展示中心」功能於一體，進一步提升以技術創新的領先地位，全面推動新一輪的發展。



報告期內，我們深化與浙江大學的戰略合作，共同成立「垃圾焚燒技術與裝備國家工程實驗室」，雙方就垃圾焚燒煙氣超低排放、生物質爐排爐CFD應用優化等技術展開合作。同時，我們亦繼續加強與清華大學、同濟大學和新加坡南洋理工大學等本地及海外知名院校和科研機構的產學研合作。



CASE STORY

個案分享

National Engineering Laboratory for Waste Incineration and Equipment Launched 垃圾焚燒技術與裝備國家工程實驗室揭牌成立

On 11 March 2017, the National Engineering Laboratory for Waste Incineration and Equipment (“National Engineering Laboratory”), in Zhejiang University (“ZJU”), has been launched. It is the only national engineering laboratory in the field of waste and hazardous waste incineration.

While the project of National Engineering Laboratory is initiated by the ZJU, Everbright International works as the first cooperation unit, joining forces with other prime leaders of the industry. The proposal was approved by the National Development and Reform Commission (“NDRC”) of the People's Republic of China (“PRC”) in October 2016.



The purpose of building the National Engineering Laboratory is to solve the problems of instability of waste and hazardous waste incineration and secondary pollution. In order to minimise the volume and meet the demand of reduce, reuse and harmless treatment of solid waste, it is necessary to establish such platform for conducting research on waste incineration and equipment.

The establishment of the National Engineering Laboratory marks an important step in the school-enterprise cooperation journey of ZJU and Everbright International. Both parties will use the cooperative research centre as basis and make use of National Engineering Laboratory as an important innovation platform which undertakes the national-level waste incineration projects. They are also going to launch some international trainings related to waste incineration so as to facilitate the R&D of waste incineration equipment and product, as well as industrialisation. Meanwhile, it can increase the innovation ability of the industry as a whole and boost the development of waste incineration.

二零一七年三月十一日，全國唯一一家專注於垃圾和危險廢物焚燒領域的工程實驗室—「垃圾焚燒技術與裝備國家工程實驗室」在浙江大學正式成立。

是次國家工程實驗室計劃由浙江大學牽頭，光大國際作為第一合作單位，與其他行業龍頭企業合力籌備，並於二零一六年十月獲國家發展和改革委員會（「發改委」）批准成立。

建立該國家工程實驗室的主要目的是針對解決中國生活垃圾和危險廢物焚燒處理穩定性不高、以及二次污染的問題。為達到圍繞固體廢物減量化、資源化和無害化處理的迫切需求，成立垃圾焚燒技術與裝備應用研究平台是必需的。

此次國家工程實驗室成立，標誌著光大國際與浙江大學在校企合作的路上邁出重要一步。雙方將以共建的聯合研究中心為基礎，以國家工程實驗室作為重要的創新平台，積極承擔國家垃圾焚燒項目，聯合開展國際垃圾焚燒發電培訓，加強垃圾焚燒重大技術裝備及產品的研發及推動工業化，提升垃圾焚燒產業的整體創新能力，刺激垃圾焚燒產業發展。

CASE STORY

個案分享

**“42km Low Energy Consumption Long Distance Steam Heating Supply Technology”
Won 3rd Place in the 2017 Electric Construction Science and Technology Progress Award**
「42公里低能耗超長距離蒸汽供熱設計技術」獲二零一七年度電力建設科學技術進步三等獎

The “42km Low Energy Consumption Long Distance Steam Heating Supply Technology” developed by the Group’s subsidiary, Jiangsu Energy Design and Research Institute of Energy Conservation Engineering, stood out among the 8,000 projects participated in the competition and won 3rd place in the 2017 Electric Construction Science and Technology Progress Award.

The design adopted the Applied Flow Technology (AFT) Arrow, an advanced fluid dynamic simulation tool for compressible flows, together with key technologies such as the self-developed low energy consumption steam pipe insulation structure and steam pipe thermal compensation with low pressure drop, accomplished an energy-efficient steam heating supply for a long distance.

This technology has been successfully applied to the Fangqiao Line (42km long pipeline), which is part of the long distance centralised heat supplying pipeline network project operated by Yixing Guoxin Union. Up until now, the project has been operating stably for more than 10 months with an average temperature drop of 3.6℃/km and a pressure drop of 0.008MPa/km, demonstrating a leading operational performance among the industry.



本集團旗下江蘇省節能設計研究院研發的「42公里低能耗超長距離蒸汽供熱設計技術」從全國約8,000個申報項目中脫穎而出，獲得二零一七年度電力建設科學技術進步三等獎。

該設計通過採用先進的Applied Flow Technology (AFT) Arrow可壓縮流體管網動態模擬分析，自主研發的低能耗蒸汽管道保溫結構及低壓損蒸汽管道熱補償等關鍵技術，實現了低能耗超長距離蒸汽供熱。

該技術已成功應用於宜興國信協聯超遠距離集中供熱管網工程芳橋線（單線長度42公里），目前項目穩定運行超過10個月，平均每公里溫降3.6度，每公里壓降0.008兆帕，運行技術參數居於行業領先水平。

Equipment Manufacturing

Everbright Environmental Protection Equipment Manufacturing (Changzhou) Limited is the equipment manufacturing centre for the Group, a high-tech manufacturing centre which integrates R&D, production and sales. The Company has established an integrated waste-to-energy system with full intellectual property rights, covering grate furnaces, gas purification systems, leachate treatment systems and automatic control systems. We also launched a series of cutting-edge products that demonstrate our technological strengths in environmental protection equipment manufacturing in China, which shows that we not only command a top-tier position in the domestic environmental protection industry, but have also successfully strengthened our influence in the industry abroad.

In 2017, the Company completed the production of and commissioned 44 sets of grate furnaces, 28 sets of flue gas purification systems and 28 sets of leachate treatment systems in tandem with the construction progress of the Company's projects. In terms of external sales, through securing new customers and building good relationships with existing customers, the Company secured contracts with a total contract value of approximately RMB816 million and sold 60 entire sets of equipment, consisting of 35 sets of grate furnaces, 17 sets of flue gas purification systems and 8 sets of leachate treatment systems.

裝備製造

光大環保技術裝備(常州)有限公司為本集團設備製造中心，是一家集環保設備「研發、製造與銷售」為一體的高科技公司。本公司具有完全自主知識產權的垃圾發電整體技術體系，包括焚燒爐排、煙氣淨化系統、滲濾液處理系統及自動化控制系統，亦推出了一系列代表中國環保裝備領域核心技術的領先產品，不僅佔據國內環保行業的技術制高點，在海外的行業影響力也日漸提升。

二零一七年，本公司完成了焚燒爐排生產供貨44套、煙氣淨化成套設備完成生產供貨28套、滲濾液成套設備完成生產供貨28套，以配合在建項目的建設進度。外銷方面，全年共簽署了價值約人民幣8.16億元的設備外銷合同，實現對外銷售成套設備60套，其中焚燒爐排生產供貨35套、煙氣淨化成套設備完成生產供貨17套和滲濾液成套設備完成生產供貨8套，成功拓展新客戶並與現有客戶建立良好的供貨合作關係。



International Business

The Company completed the acquisition of NOVAGO Sp. z o.o. (“Novago”), a leading solid waste treatment company in Poland during the second half of 2016. After going through a period of integration during the Reporting Period, Novago successfully seized upon the synergies with the Company’s businesses, and was selected as one of the top ten “Belt and Road” PPP demonstration projects by the NDRC. Looking forward, we will continue to leverage Novago’s existing strengths in mechanical and biological treatment (“MBT”) and market development capabilities to extend our value chain and promote the application of the Company’s advanced technical experience in environmental protection, renewable energy and equipment manufacturing in the environmental protection sector of Central and Eastern Europe.

In addition, the Company’s first overseas waste-to-energy project, Can Tho Waste-to-energy Project in Vietnam, commenced construction during the Reporting Period. Supported by various government departments, partners and local residents in Can Tho City, the Company has shown a high-level of professionalism in the way it pushed forward preparations for the project, strictly following Vietnamese laws and regulations, and completed all the preliminary procedures within only half a year. The project is expected to complete construction and commence operation in 2018, becoming Vietnam’s first high-standard household waste-to-energy project.

國際業務

本公司於二零一六年下半年完成收購波蘭領先的固廢處理公司NOVAGO Sp. z o.o. (「Novago」)。本公司於報告期內對Novago進行了收購後的整合，發揮與本公司的協同效應。是次收購更入選國家發改委「一帶一路」典型PPP項目十大案例之一。下一步，我們將繼續發揮Novago現有以生物機械處理方式(「MBT」)處理固廢的優勢及市場開拓能力，延伸產業鏈，並借助其在波蘭的影響力，於中東歐環保市場積極推動本公司在環保領域、新能源方面以及裝備製造上的技術經驗。

此外，本公司首個海外垃圾發電項目—越南芹苴垃圾發電項目於報告期內開工建設。在芹苴市各政府部門、合作夥伴及當地民眾的支持下，本公司以高度的專業精神推進項目的籌備工作，嚴守越南的法律法規，僅歷時半年即完成各項前期手續。項目預計於二零一八年建成投運，屆時將成為越南首個高標準的生活垃圾發電項目。

Meanwhile, the Company is committed to “stepping out” to enhance its exchange and cooperation activities with foreign peers, with the aim of facilitating the internationalisation of Chinese waste-to-energy technology while developing itself into a “flag-bearer for China” in the global environmental protection field. During the Reporting Period, Everbright International played a proactive role in China to participate in the development of various technical standards for the industry such as “Evaluation Specifications of Waste-to-Energy Plant Operation”, “Technical Specifications for Slag Treatment of Municipal Solid Waste Power Plants” and “Leachate Treatment Project Technical Specification of Waste Incineration Power Plant”, in conjunction with the Ministry of Housing and Urban-Rural Development of the PRC and other organisations. The Company also took part in the development of the World Bank’s guidelines for waste-to-energy projects in conjunction with Columbia University. As such, by drawing upon our extensive experience, we have made further contributions towards the healthy and booming development of the waste-to-energy industry.

Meanwhile, the Waste-to-energy Research and Technology Council-Asia (WTER-Asia) was founded in Nanjing in April 2017. Everbright International is one of the founding members, and the then CEO Mr. Chen Xiaoping was elected as the first Chair of WTER-Asia. The Company will ride on this opportunity to proactively foster the international commercial and technology communications, in order to explore its international perspectives and nurture international talents.

同時，本公司致力於「走出去」，加強與國外同行的交流與合作，積極推動中國垃圾發電技術的國際化，力爭成為世界環保領域的「中國名片」。於報告期內，光大國際於國內積極參與各行業標準的編制，包括與中國住房和城鄉建設部等部門及機構合作編制《垃圾發電廠運行指標評價規範》、《垃圾發電廠爐渣處理技術規範》、《垃圾發電廠滲濾液處理技術規範》三個標準的送審稿。我們亦與哥倫比亞大學共同制定世界銀行垃圾發電項目標準，充分利用我們的經驗為垃圾發電行業的健康蓬勃發展作出貢獻。

此外，「亞太固廢能源化利用協會」於二零一七年四月在南京成立，光大國際作為發起單位之一，而時任行政總裁陳小平先生當選為首任協會主席。本公司將藉此契機，積極推進國際間商務及技術的交流合作，開拓國際視野，培養國際人才。



We forge blue sky and clear water
with Hard Work and Responsibility

實幹與擔當鑄就藍天碧水



As a strong advocate of sustainable development, Everbright International manages the Company's environmental, social and governance impacts from various aspects and establishes green operational practices. We adhere to the management principle of "People-Oriented, Pragmatism, Creativity and Systematic Management", and continuously strengthen our internal control and risk management through standardised rules and regulations.

Employees are also required to comply with the "Staff Handbook" and "Code of Conduct" of the Company, which cover issues such as anti-corruption, anti-bribery, management of conflict of interest, anti-discrimination, data confidentiality and security, etc. To ensure the Company is operating ethically in our businesses, employees' ethical performance is reflected in their appraisals. We have also established a whistle blowing and complaint email address for employees and the public to raise and report any concerns of potentially unethical and dishonest issues. All complaints are directly reported to the CEO and the Chairman of the Audit Committee, and investigations are conducted according to the Company's "Whistleblowing and Investigation Policy". The confidentiality of all reporting personnel is strictly protected to ensure that no retaliation will result from the reporting. In 2017, no cases on corruption, fraud, political contribution, monopolistic practices and other misconducts were recorded.

Through the establishment of the ESHS Management System, the Company strives to minimise risks on environment, safety, occupational health and social responsibility during project construction and operation. The system comprises management standards to provide procedural guidelines on issues identification, auditing, incident investigation and reporting, work injury treatment and contractor ESHS management. Implementation of the system has not only promoted sustainable development within the Company, but also extended our safety culture and policies to the supply chain. In 2017, we continued to optimise the ESHS Management System, and enhanced its implementation at all project companies to achieve standard and delicacy in construction and operational management. Furthermore, we organised various activities such as competitions on ESHS knowledge and plant managers' forums so as to enhance our capacities in environmental and social impact management.

作為可持續發展的倡導者，光大國際從多方面管理本公司在環境、社會和管治方面的影響，建立綠色運營模式。我們奉行「以人為本、求真務實、開拓創新、規範管理」的管理理念，並透過制定規章制度，強化內部監控、完善風險管理。

員工需要遵守本公司的《員工手冊》及《員工守則》，內容涵蓋反腐敗、反賄賂、利益衝突處理、反歧視、數據保密與安全等議題，並將員工的道德表現與其績效評估掛鉤，確保本公司的經營符合相關之商業道德。我們亦設立舉報及投訴電郵地址，以供全體員工及公眾舉報潛在的不道德行為及誠信事宜。所有投訴均直接匯報至行政總裁和審核委員會主席，調查則根據公司的《舉報及調查辦法》進行。所有舉報人員的私隱均會受到嚴密保護，並確保不會由於該舉報引致任何報復。於二零一七年，我們並無關於腐敗、欺詐、政治獻金、壟斷及其他不當行為的違反記錄。

透過ESHS管理體系的構建，本公司務求將項目建設和運營期的環境、安全、職業健康和社會責任的風險降至最低。該體系包括議題識別、審核、事故調查及匯報、工傷處理及承包商ESHS管理方面等指導程序的管理標準，不僅促進公司內部的可持續發展，更將安全文化和政策延伸到我們的供應鏈中。二零一七年，我們繼續推進並提高ESHS管理體系在各項目公司的執行效果，實現項目建設、運營過程中整體管理的標準化和精細化。我們更舉辦ESHS知識競賽、廠長論壇等各類活動，提升我們在環境和社會影響方面的管理水平。



Furthermore, each of our projects is assigned with a safety management team led by the general manager and department heads, in supervising and managing all health and safety issues arising from various stages of the project, and formulating clear work safety guidelines. By providing proper tools and personal protective equipment on site, and conducting regular safety inspections at our plants, the Company maintains a prudent approach in safeguarding our employees and the communities. To ensure that our project management system aligns with international standards, all of our operating projects have obtained or are currently applying for relevant international management certifications such as OHSAS 18001 Occupational Health and Safety Management System, ISO 14001 Environmental Management System and ISO 9001 Quality Management System.

We have adopted a series of internal policies and procedures to monitor different aspects of our operations, from the design and construction of facilities to their operation and maintenance. We have also engaged third party experts to test and analyse the environmental impacts of our facilities, so as to achieve greener operations of our projects. All of our facilities are required to pass the environmental protection acceptance inspection and obtain the acceptance certificate in order to commence operation, which ensures the quality of our projects. We have also collaborated with the government to facilitate real-time monitoring of environmental emissions of our facilities.

另外，在項目公司層面，我們每一個項目均設有安全管理團隊，以總經理和部門主管為首，負責監督和管理項目各個階段的健康和安全事項，並制定清晰的安全生產指示。透過在項目現場提供適當的工具和個人保護裝備，以及為廠房進行定期的安全檢查，本公司以嚴謹的態度為我們的員工及社區作出最大的保障。我們旗下所有運營項目均已取得或正在申請相關國際管理體系認證，如OHSAS 18001職業健康和安全管理體系、ISO 14001環境管理體系及ISO 9001質量管理體系等，確保我們的項目管理體系能夠與國際接軌。

我們亦已採納一系列內部政策及程序以監控我們運營中由設施的設計、建造到運營維護等不同方面，並委聘第三方專家對我們設施的環境影響進行測試及分析，實現項目綠色運營。我們所有的設施均須通過環保驗收，並且取得環保驗收證明才可以投產，以確保項目的質量。我們亦與政府攜手合作，讓當地政府實時監測我們設施的環境排放。

Corporate Governance

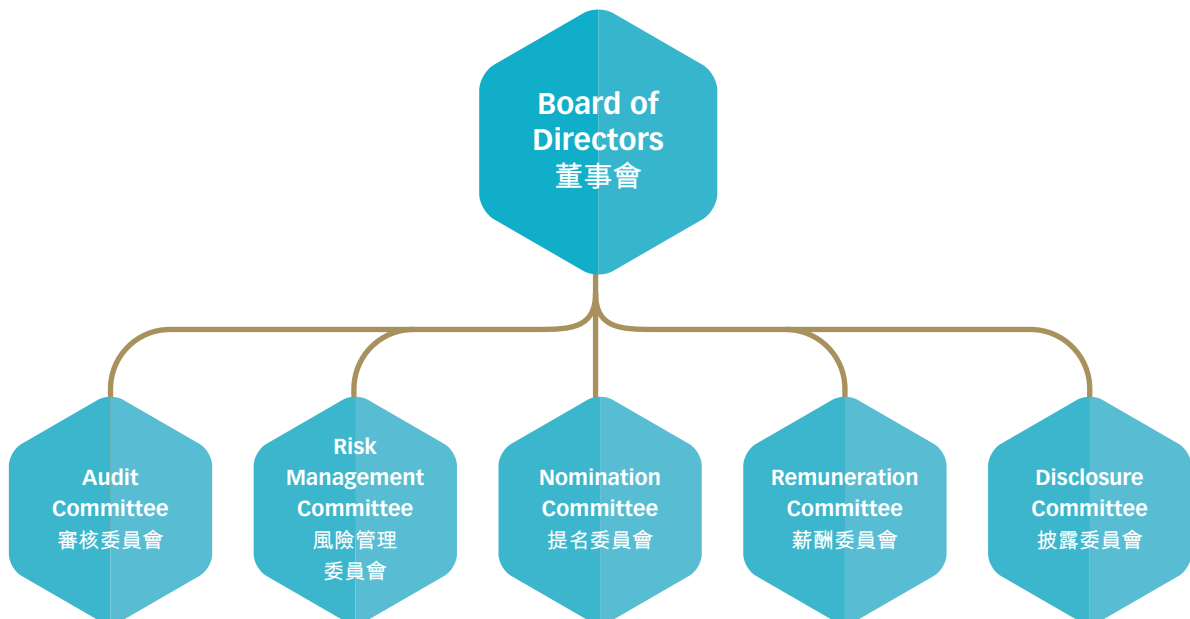
The Corporate Governance Code and Corporate Governance Report set out in Appendix 14 to the Rules Governing the Listing of Securities on HKEx (the "Listing Rules") have been duly adopted by the Board as the code on corporate governance practices of the Company.

The Group strives to maintain a high standard of corporate governance as we believe good corporate governance practices are increasingly important for maintaining and promoting the confidence of the shareholders of the Company. They are crucial for the development of the Group's business and protection of the shareholders' interests.

企業管治

董事會已採納港交所證券上市規則（「上市規則」）附錄十四所載的《企業管治守則》及《企業管治報告》作為本公司的企業管治守則。

本集團致力維持高水平企業管治，相信良好企業管治對維持和提升本公司股東的信心日益重要，並以此為發展本集團業務及保障股東利益之關鍵。



The Board

As at the date of results announcement of the Company dated 5 March 2018, the Board comprised 5 executive Directors, 1 non-executive Director and 3 independent non-executive Directors. The Board believes that the balance between executive Directors, non-executive Director and independent non-executive Directors is reasonable and adequate to provide sufficient balances that protect the interests of the shareholders and the Group. In addition, the position of the Chairman and the Chief Executive Officer are held by separate individuals, with a view to maintain an effective segregation of duties between the management of the Board and the day-to-day management of the Group's business and operation.

Independent non-executive Directors provide the Group with diversified experience and professionalism. Their advices and views as well as participation in the Board and committee meetings bring independent view, advice and judgment on issues relating to the strategy and development, business operation and performance, risk control, conflict of interest, etc., to ensure that shareholders' interests are taken into consideration.

Apart from meeting the independence guidelines set out in Rule 3.13 of the Listing Rules, we confirm that each of the independent non-executive Directors: (1) has not been employed by the Company in an executive capacity within the past 5 years; (2) has not been a partner or employee of the Company's outside auditor during the past 3 years; (3) is not a family member of an individual who is, or during the past 3 years was employed by the Company or by any parent or subsidiary of the Company as an executive officer; (4) has no conflict of interest that the Board itself determines to mean they cannot be considered independent.

As an integral part of good corporate governance, the Board has established the following Board committees with specific written terms of reference which deal clearly with the respective Board committee's authority and duties:

董事會

於二零一八年三月五日的本公司業績公告日，董事會由五位執行董事、一位非執行董事及三位獨立非執行董事組成。董事會認為執行董事、非執行董事及獨立非執行董事組合之比例合理及適當，並充分發揮制衡作用，以保障股東及本集團之利益。此外，主席及行政總裁之職務由不同人士擔任，使董事會運作及集團業務以及運營之日常管理得以有效區分。

獨立非執行董事為本集團帶來多元化的經驗及專業知識。他們提出的提議及意見，以及透過其等參與董事會及各個委員會會議，為本集團的策略及發展、業務運營及表現、風險控制及利益衝突等事宜上，提供獨立意見、提議及判斷，以確保股東之權益均獲得考慮。

除符合上市規則第3.13條所載之獨立性指引外，我們確認各獨立非執行董事：(一)在過去五年內未曾以行政人員身份受僱於本公司；(二)在過去三年內未曾受僱於本公司外部核數師或出任其合夥人；(三)沒有家屬在過去三年內以行政人員身份受僱於本公司或其任何母公司或附屬公司；(四)沒有任何本董事會認為會影響其獨立性的利益衝突。

為確保優良的企業管治，董事會成立了以下的專責委員會，並書面訂明各專責委員會之具體職權範圍，清楚說明各專責委員會之職權及職責：

Audit Committee

The Audit Committee, currently comprising all the 3 independent non-executive Directors, is primarily responsible for reviewing the accounting principles and practices adopted by the Group, as well as discussing and reviewing the risk management and internal control systems and financial reporting matters of the Company, etc. The terms of reference of the Audit Committee are available on the websites of the Company and HKEX.

Risk Management Committee

The Risk Management Committee currently comprises 2 independent non-executive Directors, the Chief Financial Officer, the Deputy General Manager and the General Manager of Internal Audit Department and Risk Management Department of the Company. Its main duties are to provide oversight of the Company's risk management programs, and to review the effectiveness of the management's processes for identifying, assessing, mitigating and monitoring enterprise-wide risks. The terms of reference of the Risk Management Committee had been established in writing.

During the Reporting Period, the Group carried out risk assessment and analysis to identify the changes in the annual risk and initiated the internal control assessment to ensure the effectiveness of the internal control management. The Risk Management Committee reviewed the establishment of a risk management system for the Group, list of risk factors and risk evaluation criteria, 2017 risk management work plan, 2017 major risk identification and control, internal control construction and evaluation.

Nomination Committee

The Nomination Committee currently comprises the Chairman of the Board, the Chief Executive Officer and all the 3 independent non-executive Directors. Its primary responsibilities include but not limited to reviewing the structure, size and composition (including the skills, knowledge and experience) of the Board, reviewing and reporting the Board diversity to the Board, assessing the independence of the independent non-executive Directors, making recommendations to the Board on appointment or re-appointment or re-designation of Directors and assessing the qualifications and competencies of the candidates, so as to ensure that all nominations are fair and transparent. The terms of reference of the Nomination Committee are available on the websites of the Company and HKEX.

審核委員會

審核委員會現時由全數三位獨立非執行董事組成，其主要職責包括審閱本集團所採納之會計原則及慣例，討論及檢討風險管理和內部監控系統，以及財務申報等事宜。有關審核委員會的職權範圍已於本公司及港交所網站公開。

風險管理委員會

風險管理委員會現時由兩位獨立非執行董事、財務總監、副總經理及本公司內部審計部及風險管理部總經理組成。其主要職責為監管本公司的風險管理程序和負責審核管理層就企業全面風險識別、評估、緩解及監控程序的有效性。風險管理委員會設有書面的職權範圍。

於報告期內，本集團開展了風險評估與分析工作，以明確年度風險變化情況，並啟動了內部監控評估工作，以確保內控管理的有效性。風險管理委員會審議本集團的風險管理體系建設工作、風險要素清單與風險評估標準、二零一七年風險管理工作計劃、年度主要風險識別與管控情況、內部監控構建與評估情況。

提名委員會

提名委員會現時由董事會主席、行政總裁，以及全數三位獨立非執行董事組成。其主要職責包括（但不限於）每年檢討董事會的架構、人數及組成（包括技能、知識及經驗方面），審查及向董事會報告董事會成員的多元化事宜，評核獨立非執行董事的獨立性，以及就董事的委任或重新委任或調任向董事會提出建議，評估候選人的資格及能力，以確保所有提名均屬公正和具透明度。有關提名委員會的職權範圍已於本公司及港交所網站公開。

Remuneration Committee

The Remuneration Committee currently comprises the Chairman of the Board and all the 3 independent non-executive Directors. The terms of reference of the Remuneration Committee, which are available on the websites of the Company and HKEx, set out the duties of the Remuneration Committee, including but not limited to determining, with delegated responsibilities, the remuneration packages of the individual executive Directors and senior management.

薪酬委員會

薪酬委員會現時由董事會主席及全數三位獨立非執行董事組成。有關薪酬委員會的職權範圍已於本公司及港交所網站公開，該職權範圍載列薪酬委員會的職責包括（但不限於）獲轉授責任，釐定個別執行董事及高級管理人員的薪酬待遇。

Indicator	指標	2017 二零一七年
Total remuneration of the highest-paid individual (HK\$)	最高薪人士的薪酬總額（港幣元）	12,564,000
The median of the total remuneration of all employees (excluding the highest-paid individual) (HK\$)	全體員工薪酬總額的中位數（不包括最高薪人士）（港幣元）	100,039

Indicator	指標	Ratio in 2017 二零一七年的比例
Ratio of the total remuneration of the highest-paid individual to median total remuneration of all employees (excluding the highest-paid individual)	最高薪人士的薪酬總額與全體員工（不包括最高薪人士）薪酬總額的中位數的比例	126:1
Ratio of the annual percentage increase in total remuneration of the highest-paid individual to the median percentage increase in annual total remuneration of all employees (excluding the highest-paid individual)	最高薪人士薪酬總額的年度百分比增長與全體員工（不包括最高薪人士）薪酬總額中位數的年度百分比增長的比例	1.3:1

The annual discretionary bonuses of individual executive Directors and senior management are mainly determined by the profit from operating activities and the profit attributable to equity holders of the Company within the year. Details of the Directors' remuneration information can be found in the Company's Annual Report 2017.

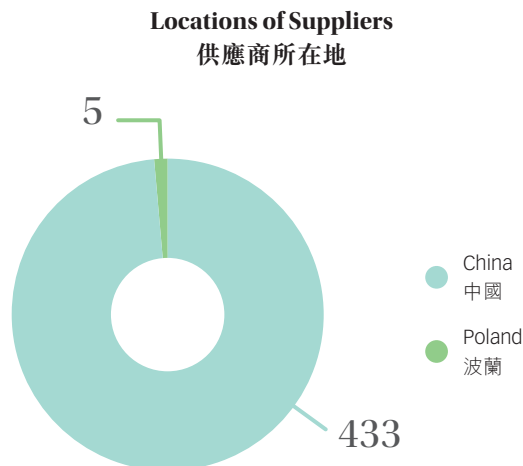
個別執行董事及高級管理人員每年的酌情花紅主要以本公司當年經營活動所得盈利及本公司權益持有人應佔盈利而釐定。有關各董事的薪酬資料，可參閱本公司的《二零一七年年報》。

Disclosure Committee

The Disclosure Committee currently comprises the Chief Executive Officer, the Chief Financial Officer, 3 members of the Management Decision Committee and the Company Secretary. The Board has delegated the day-to-day execution of its continuous disclosure obligations to the Disclosure Committee to ensure the compliance of the Company with its disclosure obligations. The terms of reference of the Disclosure Committee had been established in writing.

Our Supply Chain

Suppliers Statistics in 2017



Note:

- (1) Excludes suppliers engaged for office operations
- (2) Includes Novago Project

In order to strengthen strategic management of its supply chain, Everbright International conducts cost analysis on our supply chain on an annual basis. In 2017, purchases from the largest supplier accounted for 7% of the total amount of the Group's purchases, while purchases from the top five suppliers in aggregate accounted for 17% of the Group's total purchases. During the Reporting Period, the Company engaged a total of 438 suppliers. The principal services provided by these suppliers include equipment fitting, installation and construction, and 24% of the suppliers have provided services to the project companies located within the same province. Given the extensive business presence of the Company across China with some of its projects being located in developing areas, preference is given to suppliers in the same province with a view to supporting and facilitating local economic development. In addition, we outsourced services such as environmental monitoring, equipment maintenance, cleaning, security, etc., involving 3,311 workers.

披露委員會

披露委員會現時由行政總裁、財務總監、三名管理決策委員會成員以及公司秘書組成。董事會已授權披露委員會負責持續披露責任的日常執行工作以確保本公司遵守披露責任。披露委員會設有書面的職權範圍。

我們的供應鏈

二零一七年供應商統計

附註：

- (1) 不包括辦公室運營聘用的供應商
- (2) 包括Novago項目

為加強策略性的供應鏈管理，光大國際每年會對供應鏈進行費用分析，其中二零一七年度最大供應商的採購額佔本集團採購總額的7%，五大供應商的採購額合計為本集團採購總額的17%。報告期內，本公司建立合作關係的供應商共有438個，主要服務包括設備配置、安裝及工程建設，其中為同省份的項目公司提供服務的供應商數目佔整體的24%。由於本公司的業務遍布全國各地，而部分項目處於發展中地區，我們會優先選用位於同省份的供應商以扶持和促進當地經濟發展。另外，外判服務包括環境監測、設備維修、清潔和保安等，涉及3,311名外判工人。

Number of Outsourced Service Workers in 2017

二零一七年外判服務工人數目



Note:

- (1) Excludes outsourced service workers engaged for office operations

附註：

- (1) 不包括辦公室運營聘用的外判服務工人

Everbright International highly values supply chain management. Therefore, we have established a fair and transparent procedure for selecting and managing suppliers to minimise risks relating to sustainable development in the supply chain. The Company has adopted the "Supplier Management Measures" which categorise its existing suppliers into four classes, A to D, through an ongoing assessment exercise based on their professional standards, financial status and compliance records. Suppliers under Class D that fail to provide evidence that it is capable of fulfilling the requirements of the Company will be removed from the list. In addition, suppliers' management at Everbright International is further safeguarded by the "Tender Management Measures" and the "Management Measures for Appraisal Expert Database of Project Construction Procurement" which have been in force for some years, the "Contractor ESHS Management Standard" which has been implemented since 2016, and the "Supplier Code of Conduct" was introduced in 2017.

光大國際對供應鏈管理尤為重視，並對供應商的選擇和管理訂立了公正和透明的守則，務求將供應鏈中的可持續發展風險減至最低。本公司採用《供應商管理辦法》，主要以進行可持續評估的方式將現有合作的供應單位劃分成A到D四個等級。其準則包括供應商的專業水平、財務狀況及合規記錄等，而等級D的供應商若未能證明能夠達到本公司的要求，則不會被繼續錄用。除此以外，我們一貫採用的《招標管理辦法》、《工程建設採購評審專家庫管理辦法》等，以及二零一六年推行的《承包商ESHS管理標準》，加上二零一七年度新增設立的《供應商行為準則》等進一步強化光大國際的供應商管理工作。

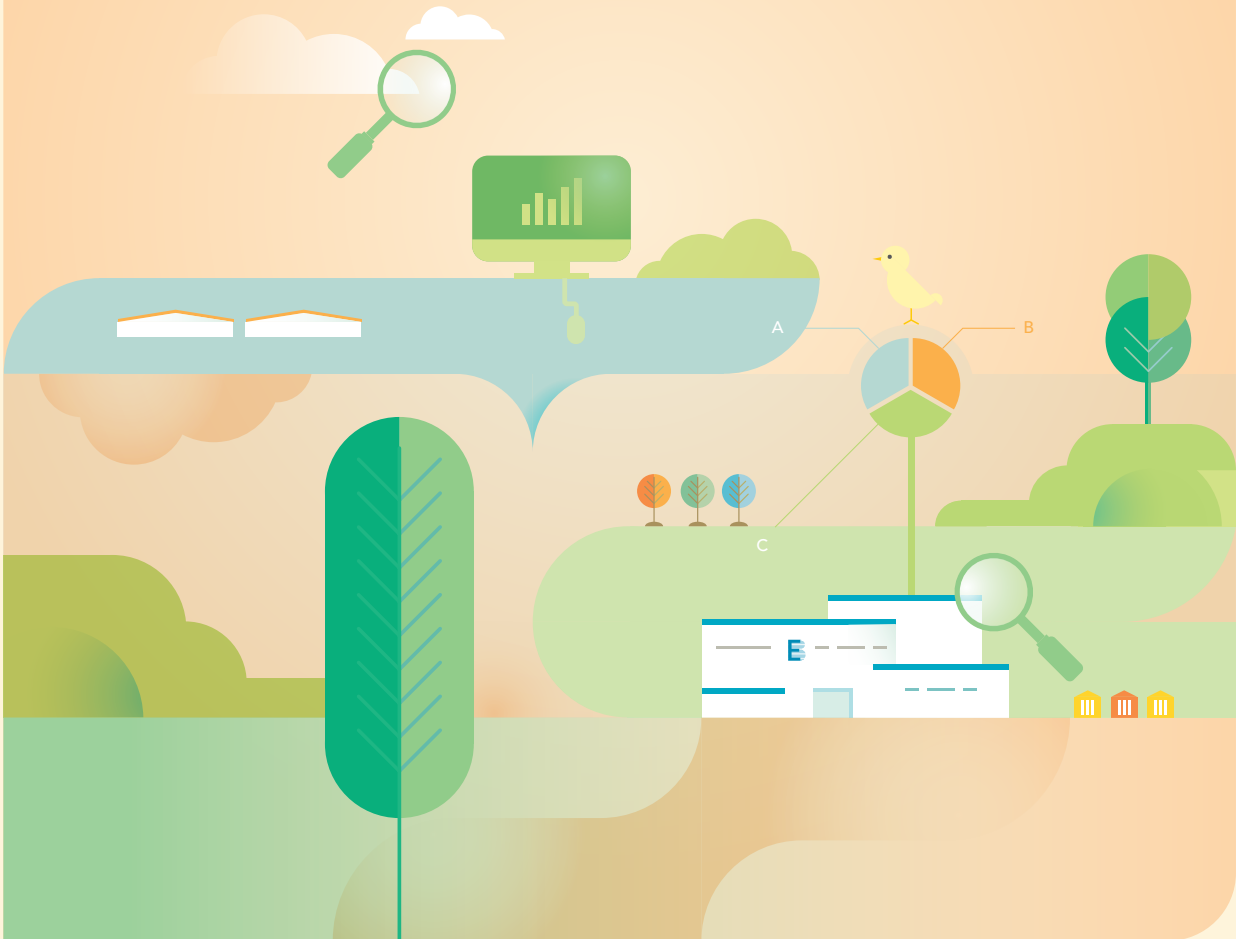
The “Contractor ESHS Management Standard” aims to manage contractors’ qualifications, construction operations, post-assessments, etc., to lower and control the risks associated with the contract work process. We prudently manage the operation of the contractors upon entry by requiring contractors to conduct ESHS training and assessment, and prepare the ESHS work plan and provide training on safety usage of equipments to workers before commencing the construction work. In the prequalification of contractors, the Company also requires contractors to complete the “Contractors ESHS Questionnaire” and provide relevant ESHS information for evaluation and selection of qualified contractors, with the aim of ensuring sustainability throughout the supply chain. The “Supplier Code of Conduct” encourages suppliers to fulfil and jointly improve the sustainability performance of the supply chain. The code covers a wide range of matters with a strong emphasis on the implementation of fair and sustainable business models, while calling for vigorous efforts to minimise negative environmental impacts during operation and improve social welfare.

In 2017, Everbright International took a step further and implemented the trial on “Suppliers Risk Assessment”, and invited 25 suppliers to conduct a questionnaire to understand the situation of various types of suppliers on aspects such as health and safety, as well as environmental and social issues. The assessment also classifies suppliers’ risks into three levels: low, medium and high. The scope of the assessment includes the contractors’ permits and safety standard certificates, as well as systems relating to quality, safety, environment, society, striving to achieve consensus on sustainable development in corporate partnerships. 100% of the surveyed suppliers have obtained ISO 9001 and OHSAS 18001 certifications, while 92% of the suppliers have obtained ISO 14001 certifications. In this risk assessment, all suppliers are classified as low risk and have maintained a cooperative relationship with us during the Reporting Period.

《承包商ESHS管理標準》旨在對承包商的資質、施工作業、後期評估等方面進行管理，以降低和控制工作外包過程中產生的風險。我們嚴謹管理承包商進場時的運作，故此要求承包商進行ESHS培訓及考核，並在施工作業前編寫ESHS作業計劃書，以及對施工人員進行設施設備的安全使用培訓。在承包商的資質預審上，本公司亦要求承包商填寫「承包商ESHS問卷調查表」，並提供相關ESHS資料作評審以篩選合格的承包商，務求將可持續發展落實至整條生產鏈。《供應商行為準則》則鼓勵供應商履行並共同提高供應鏈的可持續發展績效。準則涵蓋的內容全面，不但重視公平和可持續的業務模式，更積極推動減少運營環境的負面影響及改善社會福利。

於二零一七年，光大國際進一步試行《供應商風險評估》，邀請了25家供應商作問卷調查，以了解各類型的供應商就健康與安全、環境與社會等議題的情況，並將供應商的風險分為低、中、高三個等級。評估範圍包括承包商的許可證及安全證書，以及有關質量、安全、環境和社會等系統，致力在企業合作關係上能夠達到可持續發展的共識。100%的受訪供應商已獲取ISO 9001及OHSAS 18001認證，而92%的供應商已獲取ISO 14001認證。在本次風險評估中，所有的供應商均歸類為低風險，並於報告期內與我們保持合作關係。

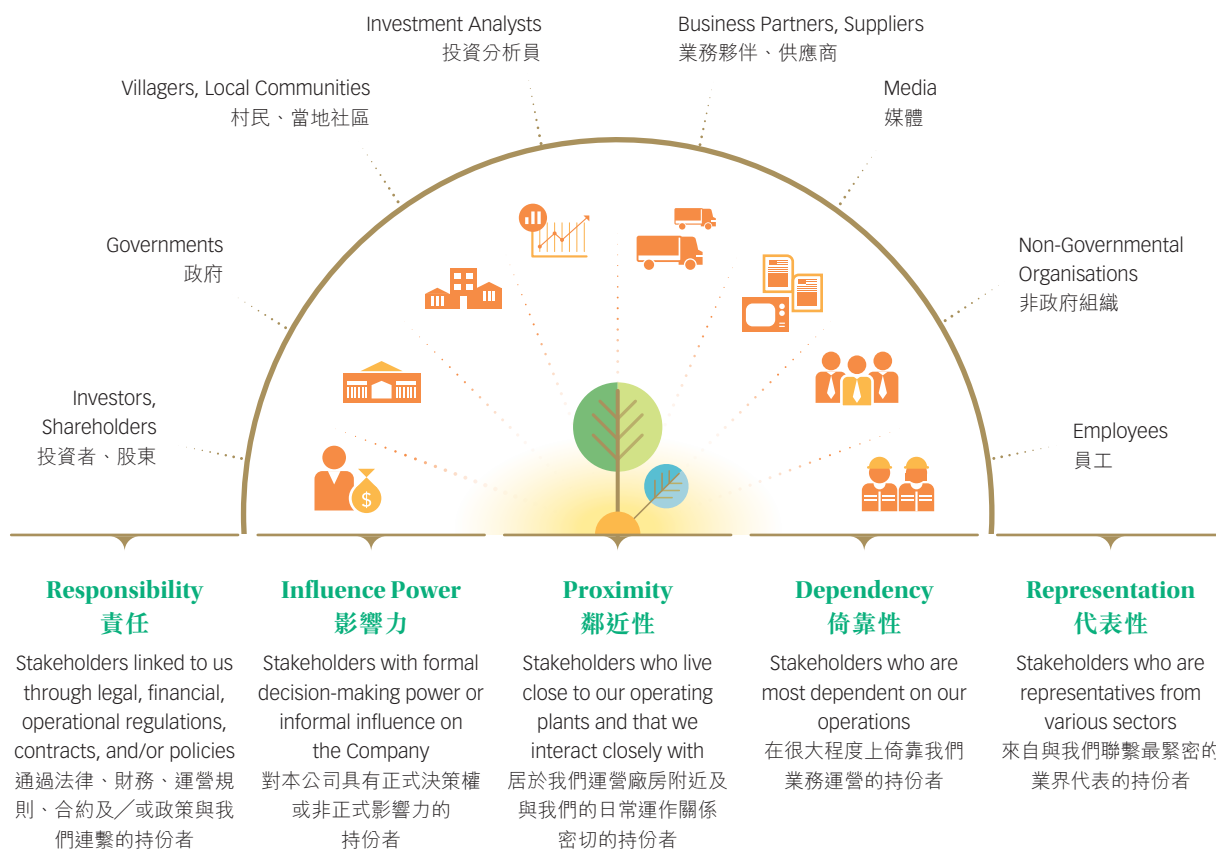
We draw on collective wisdom,
Advice and Suggestion
集思廣益，建言獻策





Stakeholder engagement is an integral part of our sustainability strategy, which supports us in coping with existing and potential risks and opportunities in the market, and forms a foundation for strategy formulation and implementation of decisions. Our key stakeholders include investors, shareholders, employees, governments, local communities, business partners, suppliers, media and investment analysts, etc. In the past year, we have engaged with stakeholders through various communication channels, to gain insight of their opinions and expectations on the Company’s sustainable development. Furthermore, we invited stakeholders on a regular basis, from the planning stage through the operation stage of the project life cycle, to express their views on issues that are relevant to our operational and environmental performance, thus identifying prioritised issues within all our operations and the associated concerns pertinent to sustainability.

持份者參與是我們的可持續策略不可或缺的一環，有助於我們應對市場中現有及潛在的風險與機遇，更是制定戰略及實施決策的基礎。我們的主要持份者包括投資者、股東、員工、政府、當地社區、商業夥伴、供應商、媒體及投資分析員等。過去一年，我們透過各類溝通渠道與持份者進行互動，深入了解他們對本公司可持續發展方面的意見和期望。另外，我們在項目的各個週期，從初始的規劃階段及至運營階段均定期邀請持份者發表對我們運營和環保表現的意見，以識別所有運營項目中的優先議題及備受關注的相關可持續性事項。



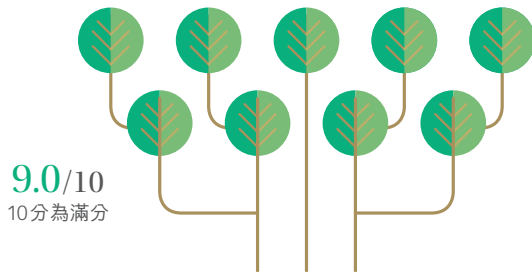
Voices of Stakeholders

To understand the concerns of each stakeholder group, we have invited an independent consultant to conduct a stakeholder engagement survey with our stakeholders from eight different sectors to express their views on our sustainability performance. The key findings of the survey are summarised as follows:

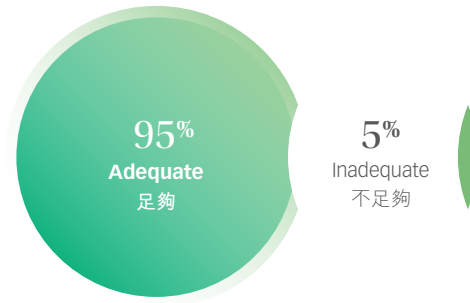
持份者心聲

為了解每個持份者組別的關注，我們邀請獨立顧問進行持份者參與問卷調查，讓來自八個不同界別的持份者就我們可持續發展方面的表現表達意見。調查的主要結果總結如下：

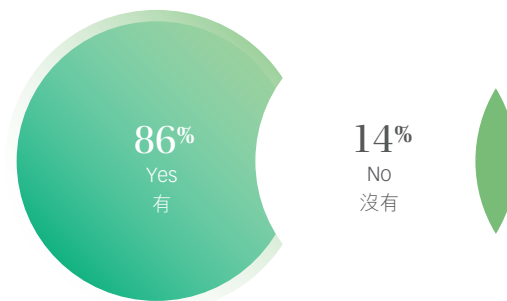
Stakeholders' rating for the sustainable development performance of Everbright International in 2017:
持份者對光大國際二零一七年可持續發展表現的評分：



Is the engagement of Everbright International with its stakeholders adequate?
光大國際與持份者的聯繫是否足夠？



Are the stakeholders aware of international business of Everbright International?
持份者有否留意光大國際的海外業務？





Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequency or Time of Engagement 頻率或時間	Issues of Highest Concern 持份者最關注的事項
Investors, shareholders 投資者、股東	Annual/extraordinary general meeting 週年／特別股東大會 Press release/announcement 新聞稿／公告 Interim results presentation/ annual results presentation 中期業績發布會／全年業績發布會 Interim report/annual report 中期報告／年報 Non-deal roadshow 非交易性路演 Circular/meeting 通函、會議 Site visit 現場考察	Annual/ad-hoc 每年／不定期 Regularly published on the Company's website/ad-hoc 定期於公司網站發布／不定期 Interim/year-end 年中／年末 Interim/year-end 年中／年末 Regularly/ad-hoc 定期／不定期 Regularly/ad-hoc 定期／不定期 Ad-hoc 不定期	<ul style="list-style-type: none"> Economic performance 經濟績效 Environmental compliance 環保合規 Occupational health and safety 職業健康與安全
Employees 員工	Work meeting/project meeting 工作會議／專題會議 Interim/year-end performance review meeting 年中／年末表現評估會議 Everbright publication 光大報刊 Charity 公益活動 Face-to-face meeting 當面會談 Email to CEO and/or the Chairman of the Audit Committee 電郵至行政總裁及／或審核委員會 主席	Regularly 定期 Interim/year-end 年中／年末 Monthly/fortnightly 每月／雙週 Ad-hoc 不定期 Ad-hoc (depending on the needs of employees) 不定期(根據員工需要) Ad-hoc (depending on the needs of employees) 不定期(根據員工需要)	<ul style="list-style-type: none"> Economic performance 經濟績效 Research and development 科研及開發 Waste water and waste management 污水及廢棄物處理



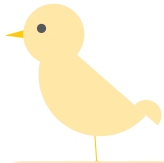
Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequency or Time of Engagement 頻率或時間	Issues of Highest Concern 持份者最關注的事項
International business partners 海外業務夥伴	Phone meeting 電話會議 Email 電郵聯繫	Monthly 每月 Monthly 每月	<ul style="list-style-type: none"> Economic performance 經濟績效 Environmental compliance 環保合規 Labour relations 勞資關係
Governments 政府	Progress report 進度報告 Site visit 現場考察 Meeting 會議 WeChat and QQ 微信及QQ Phone or email 電話或電郵聯繫	Weekly/monthly/quarterly 每週/月/季 Weekly/monthly/quarterly 每週/月/季 Weekly/monthly/quarterly 每週/月/季 Ad-hoc (depending on the needs of governments) 非特定(根據政府需要) Weekly/monthly/quarterly 每週/月/季	<ul style="list-style-type: none"> Economic performance 經濟績效 Research and development 科研及開發 Environmental education 環保教育
Business partners, suppliers 業務夥伴、供應商	Procurement tender meeting 採購招標會 Phone interview 電話回訪 Questionnaire 調查問卷 WeChat and QQ 微信及QQ	Ad-hoc 不定期 Ad-hoc 不定期 Depending on needs 根據需要 Ad-hoc (depending on the needs of business partners) 不定期(根據業務夥伴需要)	<ul style="list-style-type: none"> Economic performance 經濟績效 Research and development 科研及開發 Materials and resources usage 物料及資源利用
Villagers, local communities 村民、當地社區	Project visit 項目參觀 Survey 意見調查 Public hearing 公聽會	Before construction/open day in the first weekend of every month/ ad-hoc 工程施工前/每月第一個週末之公眾開放日/不定期 Before construction/ad-hoc 工程施工前/不定期 Before construction/when in need 工程施工前/有需要時	<ul style="list-style-type: none"> Economic Performance 經濟績效 Research and development 科研及開發 Environmental education 環保教育



Stakeholder Groups 持份者組別	Channels of Engagement or Communication 參與或溝通途徑	Frequency or Time of Engagement 頻率或時間	Issues of Highest Concern 持份者最關注的事項
Media 媒體	<p>Site visit 現場考察</p> <p>Press release 新聞稿</p> <p>Management interview 管理層採訪</p> <p>Interim results presentation/ annual results presentation 中期業績發布會/全年業績發布會</p>	<p>Annually 每年</p> <p>Issue on Company's website regularly/ad-hoc 定期於公司網站發布/ 不定期</p> <p>Regularly/depending on the needs of media 定期/根據媒體需要</p> <p>Interim/year-end 年中/年末</p>	<ul style="list-style-type: none"> Economic performance 經濟績效 Environmental compliance 環保合規 Occupational health and safety 職業健康與安全
Investment analysts 投資分析員	<p>Site visit 現場考察</p> <p>Meeting 會議</p> <p>Press release/announcement 新聞稿/公告</p> <p>Interim results presentation/ annual results presentation 中期業績發布會/全年業績發布會</p> <p>Interim report/annual report 中期報告/年報</p>	<p>Regularly/ad-hoc 定期/不定期</p> <p>Quarterly 每季</p> <p>Issue on Company's website regularly 定期於公司網站發布</p> <p>Interim/year-end 年中/年末</p> <p>Interim/year-end 年中/年末</p>	<ul style="list-style-type: none"> Market presence 市場地位 Environmental education 環保教育 Environmental compliance 環保合規
Non-governmental organisations 非政府組織	<p>Charity 公益活動</p> <p>Site visit 現場考察</p> <p>Meeting 會議</p>	<p>Ad-hoc 不定期</p> <p>Regularly/ad-hoc 定期/不定期</p> <p>Ad-hoc 不定期</p>	<ul style="list-style-type: none"> Economic efficiency 經濟績效 Environmental compliance 環保合規 Research and development 科研及開發



Investors
投資者



"During the year, Everbright International showed strong commitment in environmental protection, community engagement, and supplier management."

「在過去一年，光大國際對環境保護、社區參與和供應商管理皆表現出強有力的承諾和決心。」

"As a shareholder, I met with Everbright International's senior management semi-annually to discuss Everbright International's future development. In addition, the investor relations manager regularly sends out updated project lists and timely press releases on new project wins. The communication between us is transparent and helpful."

「作為一位股東，每半年我就會與光大國際的高級管理層會面，探討其發展大計；而投資者關係經理亦會定期發放最新的項目清單，並且就最新獲得的項目發放新聞稿。可見雙方的溝通具透明化和建設性的。」

"Everbright International has precise foresight in market positioning and reaches the forefront of the international market in the field of new technology applications. For example, the use of high-performance waste heat boiler in the waste incineration system has increased the heat efficiency, which has also improved Everbright International's market competitiveness. Although Everbright International is an international company, it is not as complicated and inefficient as other large corporations. It is operated in a simple yet effective manner and always bears explicit undertaking and integrity."

「光大國際對市場的把握和定位非常準確，在新技術應用領域內走到了國際市場的前沿，比如在垃圾焚燒系統方面，採用高參數的餘熱鍋爐，提高熱效率，增加了市場競爭力。光大國際雖然是一家國際企業，但給我的感覺是沒有大企業管理上的臃腫和效率低下，管理上簡單，平直化，效率高，責任明確，作風廉潔。」



Business Partners
合作夥伴



International Business Partners
海外合作夥伴

"Throughout the years, Everbright International has demonstrated impressive financial results, in particular their revenue and EBITDA are growing significantly. Knowing that Everbright International pays special attention on environmental protection as well as providing decent work conditions to employees, the Company has dedicated staff to constantly liaise with Novago, together solving problems and developing strategies for plans to be carried out in the nearest future."

「光大國際的過往財務業績斐然，盈利和息稅折舊攤銷前利潤均迅速增長。光大國際重視環境管理和提供優質的工作環境予員工，公司亦有專人負責定期與Novago員工聯絡，共同解決問題，並為未來行動設立對策。」



"Everbright International is a leading practitioner in the field of waste-to-energy, who concerns over the environment and acts in compliance with the government's policy. It also values the social well-being and is transparent in information disclosure. Everbright International's efforts can therefore turn "not in my backyard (NIMBY)" into "yes in my backyard (YIMBY)"."

「光大國際在垃圾發電行業，是龍頭企業、行業領軍者。關注環境，遵守相應國家政策，注重民生，信息公開，化鄰避為鄰利。」



Suppliers
供應商



Analysts
分析員

"Everbright International's contributions to China's efforts in curbing pollution is reflected by its substantial investments in waste-to-energy, biomass power generation and hazardous waste treatment projects. Everbright International's projects reserve remained strong in 2017, which shows good development prospects over the next few years."

「中國致力紓緩污染問題，而光大國際亦投資巨額於垃圾發電、生物質發電和危廢處置項目。於二零一七年，光大國際的項目儲備依然強勁，而且來年發展可觀。」

"Everbright International maintains good connection with us as they keep sending us periodical updates on new project wins, operational status of existing projects across all sectors, etc., which are really helpful for us to understand the business performance of the Company. The investor relations team is also helpful by providing us the necessary information or clarifications whenever required."

「光大國際與我們一直維持良好的關係，定期提供公司的最新消息，如最近的中標項目、不同板塊的工程進度等，這些資訊能讓我們了解公司的業務表現。每當我們需要跟進一步的消息或解釋時，投資者關係組都能有效地提供相關資料。」

"We highly appreciate the management of Everbright International, especially their developments in the overseas markets."

「我們十分欣賞光大國際的管理，尤其是他們對海外市場的開拓。」

Materiality Assessment

To identify significant sustainability risks and opportunities of Everbright International, we conduct a comprehensive materiality assessment on an annual basis. This assessment guides the prioritisation of topics identified during the stakeholder engagement process and helps us determine the economic, environmental and social issues that are of most concern to the Company and its stakeholders, so that we could make corresponding adjustments in resource allocation to make the Report more focused on the key concerned topics.

The major steps of our materiality assessment in this year are summarised as follows:

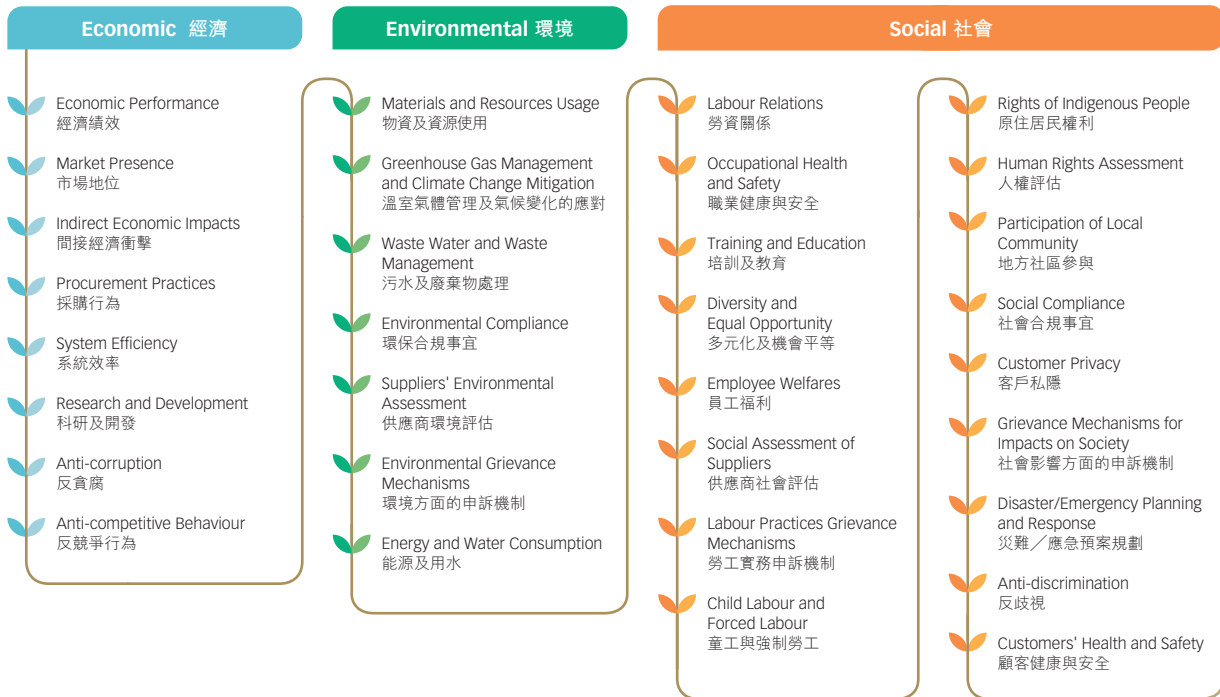
實質性評估

為辨別光大國際的重大可持續發展風險及機遇，我們每年均會進行一次全面的實質性評估。評估將對從持份者參與過程中識別出來的議題進行優先排序，確立本公司及持份者最為關切的經濟、環境和社會議題，從而調整資源投放，並使本報告更具針對性。

本年度實質性評估的主要步驟總結如下：

List of Sustainability Issues

可持續發展議題列表



Stage 1 第一階段

Identification on Sustainability Topics Most Relevant to Everbright International

識別與光大國際最相關的可持續發展議題

The identification of material topics was carried out by our independent sustainability consultant. A list of over 30 significant issues was compiled from the evaluation of Everbright International's major impacts on economic, environmental, labour, human rights and other social issues in terms of sustainability. These key topics were determined from extensive sources of information, including the indicators of GRI Standards, opinions from the stakeholders, Everbright International's policies and management strategies, internal publications and media reports, etc.

實質性議題的識別經由本公司的獨立可持續發展顧問進行。評估收集了超過30個光大國際於經濟、環境、勞工、人權及其他社會事項的可持續發展議題。這些關鍵議題乃透過廣泛資料來源所得，其中包括GRI指標、持份者參與意見、公司政策及管理策略、內部刊物及媒體報導等。

Stage 2 第二階段

Establishment of Materiality Matrix and Prioritisation of Material Topics

制定實質性矩陣、識別實質性議題的優先次序

A third-party stakeholder engagement survey was conducted by our independent sustainability consultant to obtain the order of priority of the material topics identified in Stage 1 from 8 stakeholder groups. The findings were summarised and analysed by the consultant as a materiality matrix based on two parameters: perceived importance to the stakeholders and impacts significant to Everbright International. The top 10 prioritised material topics perceived by both the stakeholders and the Company as having the highest importance form the focus of disclosure of the Report.

我們的獨立可持續發展顧問對八個重點持份者組別進行第三方持份者參與調查，依據調查結果為第一階段識別的實質性議題作優先排序。顧問隨即根據持份者對議題的取向和議題對光大國際的重要性兩個參數，對這些議題作出統計及分析，並將議題以矩陣表達。前10個於持份者和公司層面最為重要的議題即為本報告的披露重點。

Stage 3 第三階段

Validation of Material Topics

驗證實質性議題

The 10 prioritised material topics and boundaries were validated by Everbright International's senior management to ensure the rationality, balance and completeness of the Report. Following this process, our independent sustainability consultant reframed the material topics into GRI Standard Disclosures for ease of reporting. The established systematic data collection and monitoring mechanisms managed by our specialists in the Operation Management Department ensures that all project companies provide accurate and comprehensive data on a regular basis.

光大國際的高級管理人員對這10個經優先排序的實質性議題及其邊界作驗證，以確保報告的合理性、平衡性及完整性。隨後，我們的獨立可持續發展顧問將實質性議題轉換為GRI標準披露，方便報告之用。公司運營部的專員透過系統式的數據收集和監測機制，確保所有項目公司定期提供準確、全面的可持續發展數據。

Stage 4 第四階段

Materiality Review

檢視實質性

Prior to the preparation of the Report, we had reviewed the material topics and disclosure practices of previous reports, and collected stakeholders' opinions on Everbright International's sustainability performance in 2017 through third-party stakeholder engagement surveys. The materiality review allows stakeholders to participate in the sustainable development disclosure process comprehensively and is beneficial to the Company in accomplishing long-term sustainable development targets.

在準備本報告之前，我們對過往報告的實質性議題和披露工作進行了回顧，並通過第三方持份者參與調查收集了持份者對光大國際於二零一七年度可持續發展表現的意見。實質性檢視有助持份者更全面參與可持續發展的披露過程中，同時有利於公司實踐長遠的可持續發展目標。

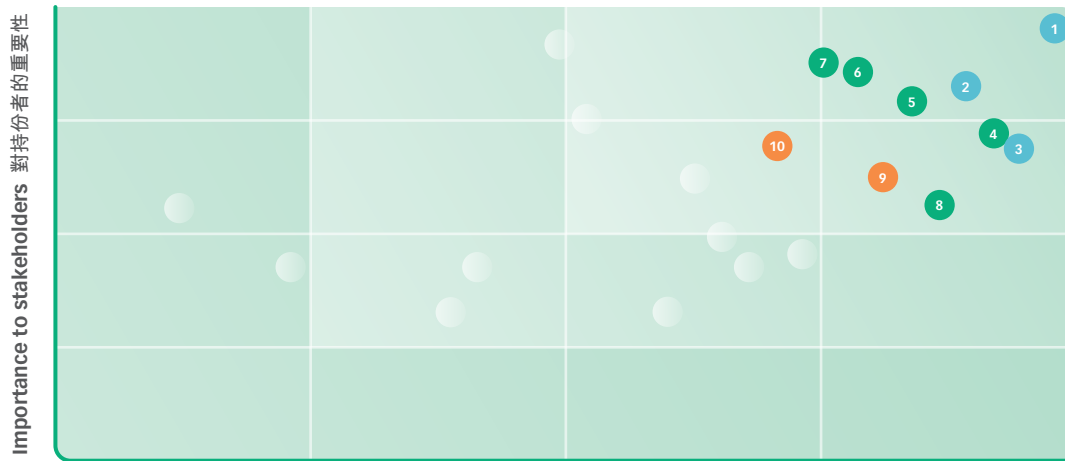


Materiality Matrix

The 10 material topics listed below can be transferred as the disclosure standard of GRI. The Report will relate to those disclosure standards in reporting the sustainability performances of the Company's controlled and operating projects during the Reporting Period.

實質性議題矩陣

下列十個經排序的實質性議題可被轉換成GRI的標準披露。本報告將圍繞這些標準披露，匯報本公司擁有運營控制權並於報告期內運營中的項目的可持續發展表現。



Significance of Economic, Environmental and Social Impacts 對經濟、環境及社會的顯著性

Economic 經濟	Environmental 環境	Social 社會
<ul style="list-style-type: none"> 1 Economic Performance 經濟績效 2 Environmental Compliance 環保合規 3 Market Presence 市場地位 	<ul style="list-style-type: none"> 4 System Efficiency 系統效率 5 Effluents and Waste 污水及廢棄物 6 Materials 物料 7 Research and Development 科研及開發 8 Emissions 排放 	<ul style="list-style-type: none"> 9 Employment 僱傭 10 Occupational Health and Safety 職業健康與安全



Top 10 Material Topics of Everbright International

光大國際的十大實質性議題

GRI Standard Disclosures
GRI標準披露

Impact and Boundaries
影響及範圍

	Within Everbright International 光大國際內部		Outside Everbright International 光大國際外部					
	Investors/ Shareholders 投資者/股東	Employees 員工	Governments 政府	Villagers/Local Communities 村民/ 當地社區	Business Partners/ Suppliers 業務夥伴/ 供應商	Investment Analysts 投資分析員	Media 媒體	Non- Governmental Organisations 非政府組織
1 Economic Performance 經濟績效	✓	✓	✓	✓	✓	✓	✓	✓
2 Environmental Compliance 環保合規	✓	✓	✓	✓	✓	✓	✓	✓
3 Market Presence 市場地位	✓	✓	✓	✓	✓	✓	✓	
4 System Efficiency 系統效率	✓	✓	✓	✓	✓	✓	✓	
5 Effluents and Waste 污水及廢棄物	✓	✓	✓	✓	✓	✓	✓	✓
6 Materials 物料	✓	✓	✓	✓	✓	✓	✓	✓
7 Research and Development 科研及開發	✓	✓	✓	✓	✓	✓	✓	
8 Emissions 排放	✓	✓	✓	✓		✓	✓	✓
9 Employment 僱傭	✓	✓						
10 Occupational Health and Safety 職業健康與安全	✓	✓		✓			✓	

- Economic 經濟
- Environmental 環境
- Social 社會

We establish ourselves as an
**Environmentally Friendly Brand
and a Global Role Model**

打造生態品牌，樹立國際典範



In 2017, the Chinese government raised the development of ecological civilisation progress to an unprecedented level of importance. With green and low carbon development becoming the mainstream of global socio-economic development, there has been a consistent rise in the demand for environmental enhancement. To complement unparalleled government support of ecological protection and management across the board from the central authorities to local administrations, Everbright International has incorporated risks related to climate change into its environmental and social risks with an aim of improving our internal risk reporting and controlling system. The use of alternative energy source in replacing coal by the Company's environmental projects is in perfect accordance with the objective of low carbon development of the "United Nations Framework Convention on Climate Change" ("UNFCCC"), of which China is a signatory.

Air Emissions Management and Climate Change Mitigation

As a leading enterprise in the environmental protection industry, Everbright International has taken practical measures in response to climate change, while operational emissions management has always been the focus of our attention. Through alleviating burden on landfills, waste-to-energy undoubtedly offers an effective green solution that results in environmental benefits. Such contribution to environmental protection is showcased by our self-developed grate furnaces, flue gas purification systems and the third generation of leachate treatment systems, which have substantially improved to both the treatment standard and effectiveness of our newly built waste-to-energy projects. During the Reporting Period, we processed approximately 11,743,000 tonnes of household waste and generated approximately 3,432,697,000 kWh of on-grid green electricity, with a significant increase of approximately 31% and 39% compared with 2016, and avoided approximately 4,590,000 tonnes of carbon dioxide equivalent emissions.



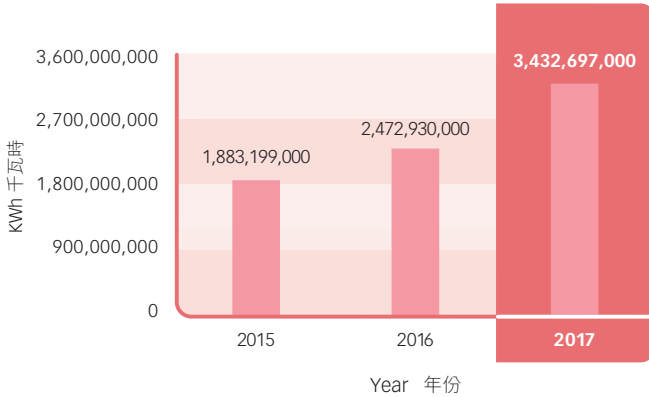
中國政府在二零一七年將生態文明建設提到了前所未有的高度，而綠色、低碳發展已經成為全社會經濟發展的主流，對環境整治的需求持續升溫。為配合國家從中央到地方對生態環境保護治理政策空前的支持力度，光大國際將與氣候變化相關的風險納入為環境和社會風險之一，從而完善我們的內部風險報告和控制體系。本公司的環保項目作為煤炭的替代能源，正與國家作為《聯合國氣候變化框架公約》締約國之一的低碳發展方向契合。

煙氣排放管理及應對氣候變化

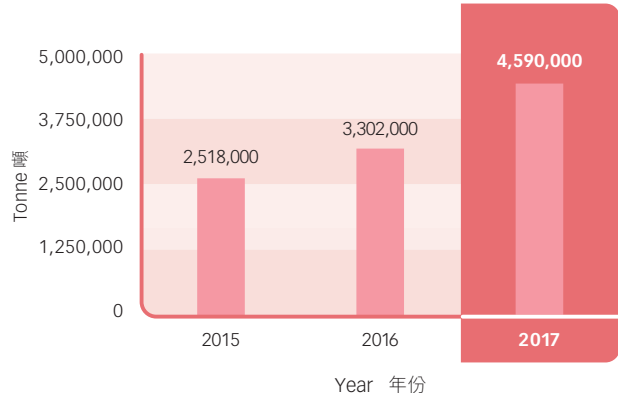
作為環保行業的領軍企業，光大國際以實際措施應對氣候變化，而運營中的排放管理一直是我們所關注的重點。透過減輕對填埋場的壓力，垃圾發電固然為達致環境效益提供了一個強而有力的綠色方案。而我們研發的爐排爐、煙氣淨化系統及滲濾液處理第三代技術均為新建成的垃圾發電項目帶來了在標準及效益上的顯著提升，盡顯垃圾發電對環保的貢獻。於報告期內，我們處置了約11,743,000噸生活垃圾，提供綠色上網電量約3,432,697,000千瓦時，較二零一六年大幅上升約31%及39%，及避免了二氧化碳當量排放約4,590,000噸。



On-Grid Green Electricity Supplied⁽¹⁾
綠色上網電量⁽¹⁾



Carbon Dioxide Equivalent Emission Avoided⁽¹⁾
二氧化碳當量減排量⁽¹⁾



Notes:

- (1) Figures are rounded to the nearest thousand
- (2) Includes all Environmental Energy's operating waste-to-energy projects in China

附註：

- (1) 數字調整至最接近的千位數表示
- (2) 包括環保能源所有位於中國的運營垃圾發電項目

During the Reporting Period, the Company continued to lower the greenhouse gas (“GHG”) emissions of its operating projects by using low-carbon energy sources and adopting measures to reduce fugitive emissions. We used the GHG emissions calculation methodology of the CDM under the UNFCCC to estimate the GHG emissions of all of our waste-to-energy projects in operation in an accurate manner. The CDM calculation methodologies take into account project details such as CO₂ emissions from fossil fuel combustion, fossil carbon fraction of household waste, methane generated from anaerobic digestion of leachate, etc. Our disclosure of the types, quantity and scopes of GHG emissions under CDM provides comprehensive and reliable GHG emissions data to our stakeholders. During the Reporting Period, the Company did not have any exceedance in emissions, nor was it subject to any fines or charges. This is attributable to the rigorous standards we applied in our operations.

本公司於報告期內繼續透過採納低碳能源及無組織氣體排放管控措施以降低項目運營中的溫室氣體排放，並使用了《聯合國氣候變化框架公約》中CDM的溫室氣體排放計算方法，以準確估算所有運營中垃圾發電項目的溫室氣體排放量。CDM的計算方法涵蓋了化石燃料燃燒所產生的二氧化碳排放、生活垃圾內的化石碳、滲濾液經厭氧消化產生的甲烷等項目細節。我們在溫室氣體的排放種類、排放量和範疇三個層面為持份者帶來了全面及可靠的數據披露。本公司於報告期內沒有發生超標排放、被罰款或控告的事件，可見我們律己以嚴並實踐高規格運營的成效。

GHG Emissions in 2017 (tonne CO₂ equivalent)二零一七年的溫室氣體排放量
(噸二氧化碳當量)

Scope 1 (Direct Emissions) 範疇一 (直接排放)		Scope 2 (Energy Indirect Emissions) 範疇二 (能源引致的間接排放)		Scope 3 (Other Indirect Emissions) 範疇三 (其他間接排放)		Total GHG Emission 溫室氣體總排放量
Main Sources 主要來源	Emission 排放量	Main Sources 主要來源	Emission 排放量	Main Sources 主要來源	Emission 排放量	
Fuel oil used for operation; CO ₂ , N ₂ O and methane produced from waste incineration; Methane produced from anaerobic digestion of leachate 運營消耗的燃油； 垃圾焚燒產生的 二氧化碳、氧化亞氮和 甲烷；滲濾液經厭氧 消化處理產生的甲烷	10,117,526.77	Non-renewable electricity used for operation 運營消耗的非再生電力	4,235.45	Employees' air travel 員工飛機差旅	515.41	10,122,277.63

Notes:

- (1) Figures are rounded to two decimal places
- (2) The calculation boundary covers all Environmental Energy's operating waste-to-energy projects in China and air travel by employees of business sectors of Environmental Energy, Envirotech, and Equipment Manufacturing
- (3) The calculation for operating projects is referenced to CDM methodology "ACM0022: Alternative waste treatment processes (Version 2.0)"
- (4) GHG emissions from air travel are calculated by ICAO Carbon Emissions Calculator

附註：

- (1) 數字調整至最接近的小數點後兩位表示
- (2) 計算邊界包括環保能源所有位於中國的運營垃圾發電項目及環保能源、環境科技和裝備製造業務板塊的員工飛機差旅
- (3) 運營項目的計算參照CDM方法《ACM0022：多選垃圾處理方式(2.0版)》
- (4) 飛機差旅的溫室氣體排放以國際民航組織的碳排放計算器計算得出

We attach great importance to the environmental performance of our projects. Therefore, we strictly control stack emission levels such as dioxins, particulate matter, sulphur dioxide, nitrogen oxides, etc., in all operating projects. We have further implemented stringent operational procedures with frequent inspection and extensive supervision, aiming to effectively control fugitive emissions of our projects to avoid air pollution. All of our waste-to-energy projects are designed and operated in full compliance with the "Standard for Pollution Control on the Municipal Solid Waste Incineration" (GB18485-2014) as well as the relevant emissions standards as stipulated in the European Union "Industrial Emissions Directive" (2010/75/EU) ("Euro 2010").

我們高度重視項目的環保表現，故此我們嚴格控制所有運營項目的二噁英、顆粒物、二氧化硫及氮氧化物等煙氣排放。我們更採納了嚴謹的操作程序及高頻率的檢查及進行嚴格監督，旨在有效地控制項目的無組織排放，避免造成空氣污染。我們所有的垃圾發電項目的設計及運營亦能完全符合《生活垃圾焚燒污染控制標準》(GB18485-2014)和歐盟《工業排放指令》(2010/75/EU) (「歐盟2010」)中的相關排放標準。

Air Emissions of Waste-to-energy Projects (tonne)

垃圾發電項目的煙氣排放量（噸）

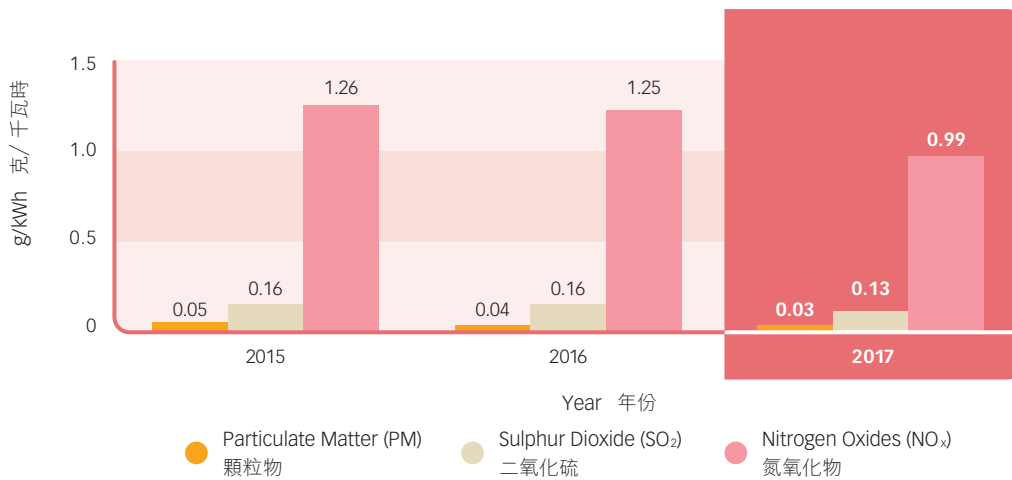
Particulate Matter (PM) 顆粒物	Sulphur Dioxide (SO ₂) 二氧化硫	Nitrogen Oxides (NO _x) 氮氧化物
118	439	3,389

Notes:

附註：

- | | |
|---|---------------------------|
| (1) Figures are rounded to the nearest integer | (1) 數字調整至最接近的整數表示 |
| (2) Includes all Environmental Energy's operating waste-to-energy projects in China | (2) 包括環保能源所有位於中國的運營垃圾發電項目 |

Air Emissions per kWh of On-Grid Green Electricity Supplied
每千瓦時綠色上網電量的煙氣排放量



Notes:

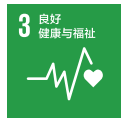
附註：

- | | |
|---|---------------------------|
| (1) Figures are rounded to two decimal places | (1) 數字調整至最接近的小數點後兩位表示 |
| (2) Includes all Environmental Energy's operating waste-to-energy projects in China | (2) 包括環保能源所有位於中國的運營垃圾發電項目 |

We believe that information transparency and openness can encourage public supervision and allow social forces to improve the management of Everbright International. In view of this, we formulated a “Four Steps” environmental information disclosure plan in 2015, becoming the first enterprise in the industry to disclose emission data and environmental impact management information of all of our operating waste-to-energy projects on our corporate website. After two years of unremitting efforts, the Company successfully achieved online hourly disclosure of average emission data taken from its continuous emissions monitoring network across all its operating waste-to-energy projects during the Reporting Period, meeting our targets as planned. This initiative positioned Everbright International as a role model in pushing forward voluntary disclosure of environmental information within the industry, and further demonstrated our responsibility and commitments to the environment and society.



我們相信資訊透明化、公開化能夠鼓勵公眾參與監督，讓社會力量推動提升光大國際的管理水平。因此，我們於二零一五年制定了環境信息披露「四步走」的計劃，率先於企業網站公布所有運營垃圾發電項目的排放數據及環境管理信息。經過兩年的不懈努力，本公司成功於報告期內實現每小時更新所有運營垃圾發電項目的煙氣在線監測均值，按計劃達成目標。此舉使光大國際在行業中樹立了主動披露環境信息的好榜樣，並進一步彰顯了我們對環境和社會的責任及承諾。



In 2017, we initiated a research project on fine particulate matter (PM2.5) emissions at our waste-to-energy projects, making us a forerunner in the industry in monitoring waste-to-energy related PM2.5 emissions in China. The objectives of the research are to develop tailored methodologies for the sampling and analysis of PM2.5 emissions applicable to the waste-to-energy industry in China, to estimate PM2.5 emissions from waste-to-energy plants using scientific methods, and to understand the effect of emissions from waste-to-energy projects to the ambient PM2.5 levels in their surrounding areas. As an enterprise to conduct research on PM2.5 emission characteristics in China prior to any development of relevant industry standard and technological specification by the government, we set a benchmark as a truly environmentally responsible citizen with embracement of science and professionalism. Leveraging on our strong R&D capabilities, we are taking a crucial step forward in the fight against air pollution.

於二零一七年，我們自發開展了一個探究垃圾發電項目細顆粒物(PM2.5)排放的研究項目，成為中國行業內監測垃圾發電相關PM2.5排放的先行者。此研究旨在建立一套針對並適用於中國垃圾發電行業PM2.5排放量的採樣和分析方法、以科學依據推導出垃圾發電廠PM2.5排放的估算，並了解垃圾發電項目的排放對周圍地區PM2.5水平的影響。在政府尚未制訂相關行業標準及技術規範下，我們作為國內首間開展PM2.5排放特徵研究的企業，樹立了一個本著科學及專業精神、真正對環保負責的公民的典範。藉助強大的研發實力，我們在與空氣污染的鬥爭中邁出了關鍵的一步。



Materials and Resources Usage

To reduce the consumption of materials and energy in general, the Company has persisted in making systematic and detailed records on the consumption of material and resources by each project as reference for the formulation of long-term resource consumption strategies.



物料及資源利用

為減少整體的物料和能源消耗，本公司堅持對各個項目的物料和資源使用作系統性及詳盡的記錄，以作我們制定長遠的資源利用策略的參考。



Major Materials Consumption of Environmental Energy in 2017

二零一七年環保能源的主要物料使用量

Materials used ⁽¹⁾	使用的物料 ⁽¹⁾	Consumption in 2017 二零一七年的使用量 (tonne) (噸)
Renewable/recycled materials ⁽²⁾	可再生／循環再用物料 ⁽²⁾	
Household waste	生活垃圾	11,743,000
Non-renewable materials ⁽³⁾	非再生物料 ⁽³⁾	
<i>Material consumption in production</i>	<i>於生產過程中的物料耗用量</i>	
Lime	石灰	145,882.67
Activated carbon	活性碳	4,223.59
Ammonia	氨水	34,313.20
Fuel oil	燃油	225,089.72
Acetylene	乙炔	35,897.17
Demineralsed water	除鹽水	804,963.19
Tap water	自來水	4,336,803.03
River water	河水	6,233,259.08
Reclaimed water	中水	640,125.42
<i>Material consumption in leachate treatment</i>	<i>滲濾液處理的物料耗用量</i>	
Industrial sulphuric acid	工業硫酸	312.15
Industrial hydrochloric acid	工業鹽酸	2,635.51
Scale inhibitor	阻垢劑	235.17
Bactericide	殺菌劑	162.30
Cationic polyacrylamide (CPAM)	陽離子聚丙烯酰胺	1,759.38
Anionic polyacrylamide (APAM)	陰離子聚丙烯酰胺	3.59
Sodium hydroxide	氫氧化鈉	1,488.27
Sodium hypochlorite	次氯酸鈉	34.79
Citric acid	檸檬酸	4.26
Disodium phosphate	磷酸氫二鈉	52.30
Polyaluminum chloride	聚合氯化鋁	146.87
Reducing agent (sodium bisulfite)	還原劑(亞硫酸氫鈉)	8.66
Total	總計	24,210,400.32

Notes:

- (1) Covers all operating projects in China
- (2) Figures are rounded to the nearest thousand
- (3) Figures are rounded to two decimal places

附註：

- (1) 包括所有位於中國的運營項目
- (2) 數字調整至最接近的千位數表示
- (3) 數字調整至最接近的小數點後兩位表示

Water Withdrawn by Source (m³)

按來源劃分的取水量 (立方米)

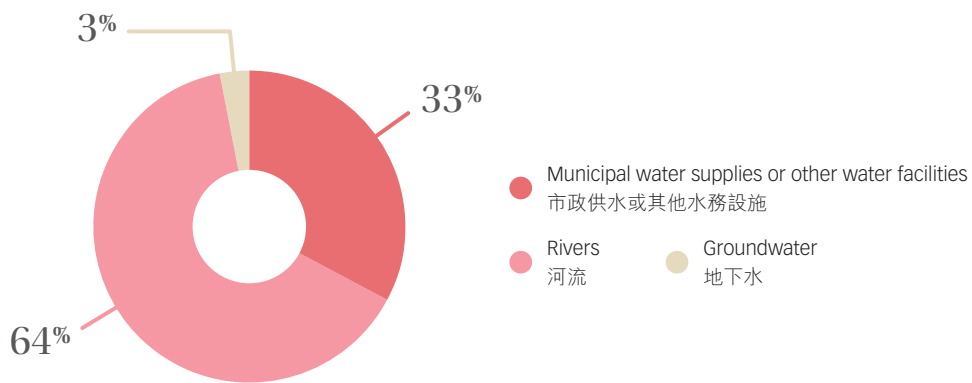
Municipal water supplies or other water facilities 市政供水或其他水務設施	Rivers 河流	Groundwater 地下水	Total 總計
3,329,365.40	6,330,176.27	312,825.00	9,972,366.67

Notes:

- (1) Figures are rounded to two decimal places
- (2) Includes all Environmental Energy's operating projects in China and Equipment Manufacturing's operations

附註：

- (1) 數字調整至最接近的小數點後兩位表示
- (2) 包括環保能源所有位於中國的運營項目和裝備製造的運營



Notes:

- (1) Figures are rounded to the nearest integer
- (2) Includes all Environmental Energy's operating projects in China and Equipment Manufacturing's operations

附註：

- (1) 數字調整至最接近的整數表示
- (2) 包括環保能源所有位於中國的運營項目和裝備製造的運營

Effluents Discharged by Destination (m³)

按目的地劃分的排放量 (立方米)

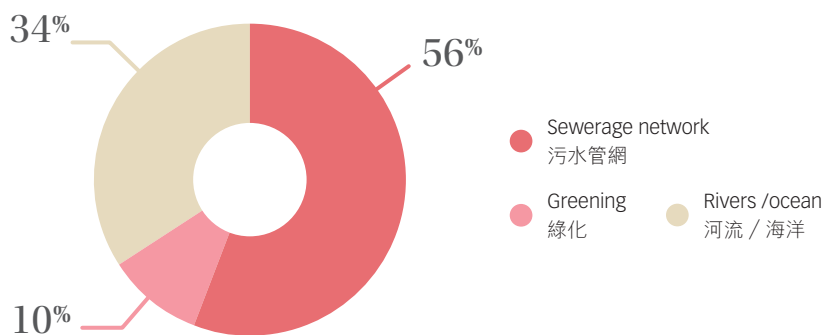
Sewerage network 污水管網	Greening 綠化	Rivers/ocean 河流/海洋	Total 總計
532,065.70	92,395.00	319,556.60	944,017.30

Notes:

- (1) Figures are rounded to two decimal places
- (2) Includes all Environmental Energy's operating projects in China and Equipment Manufacturing's operations

附註：

- (1) 數字調整至最接近的小數點後兩位表示
- (2) 包括環保能源所有位於中國的運營項目和裝備製造的運營



Notes:

- (1) Figures are rounded to the nearest integer
- (2) Includes all Environmental Energy's operating projects in China and Equipment Manufacturing's operations

附註：

- (1) 數字調整至最接近的整數表示
- (2) 包括環保能源所有位於中國的運營項目和裝備製造的運營

Waste Water and Waste Management

Fly ash and bottom ash are the main wastes generated from the operation of the Company's waste-to-energy projects. Fly ash, a hazardous waste, is first solidified by a chelating agent in compliance with the "Standard for Pollution Control on the Landfill Site of Municipal Solid Waste" (GB16889-2008) before being sent to a designated area in the landfill site or a hazardous waste landfill for safe disposal, so as to prevent secondary pollution. Bottom ash is a general solid waste and is handled according to the "Standard for Pollution Control on the Landfill site for Municipal Solid Waste" (GB16889-2008) or recycled for integrated utilisation such as brick-making. Everbright International transported and processed various hazardous waste via effective and environmentally friendly means and refrained from importing or exporting any hazardous waste from/to foreign countries in 2017 in active fulfilment of China's responsibility as a signatory party of "Basel Convention".

污水及廢物管理

飛灰和爐渣是本公司垃圾發電項目運營中產生的主要廢物。垃圾發電項目所產生的飛灰屬於危險廢物，處理方法為經螯合劑螯合固化符合《生活垃圾填埋場污染控制標準》(GB16889-2008)後，送往垃圾填埋場單獨分區填埋，或進入危廢填埋場進行安全填埋，杜絕二次污染。爐渣屬於一般固體廢物，根據《生活垃圾填埋場污染控制標準》(GB16889-2008)按一般固體廢物進行處理或透過製磚等方式進行資源綜合利用。透過以高效環保的方式運輸及處理各類危險廢物，光大國際積極負起國家作為《巴塞爾公約》締約國的責任，於二零一七年沒有從國外輸入或向其輸出任何危險廢物。

Fly Ash Processed (tonne)

飛灰處置量 (噸)

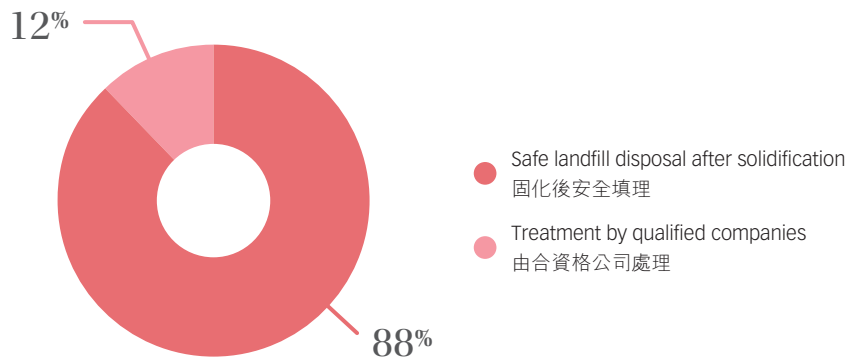
Safe landfill disposal after solidification 固化後安全填埋	Treatment by qualified companies 由合資格公司處理	Total 總計
354,711.71	48,496.92	403,208.63

Notes:

- (1) Figures are rounded to two decimal places
- (2) Includes all Environmental Energy's operating waste-to-energy projects and a sludge treatment and disposal project in China

附註：

- (1) 數字調整至最接近的小數點後兩位表示
- (2) 包括環保能源所有位於中國的垃圾發電和污泥處理處置運營項目



Notes:

- (1) Figures are rounded to the nearest integer
- (2) Includes all Environmental Energy's operating waste-to-energy projects and a sludge treatment and disposal project in China

附註：

- (1) 數字調整至最接近的整數表示
- (2) 包括環保能源所有位於中國的垃圾發電和污泥處理處置運營項目

Bottom Ash Processed (tonne)

爐渣處置量 (噸)

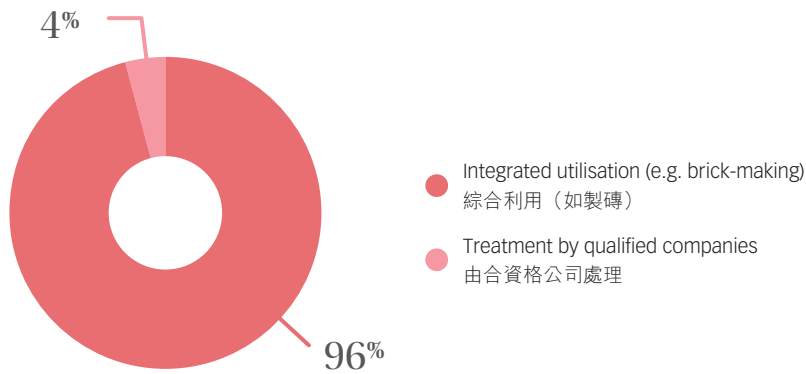
Integrated utilisation (e.g. brick-making) 綜合利用 (如製磚)	Treatment by qualified companies 由合資格公司處理	Total 總計
2,508,898.47	100,462.97	2,609,361.44

Notes:

- (1) Figures are rounded to two decimal places
- (2) Covers all Environmental Energy's operating waste-to-energy projects in China

附註：

- (1) 數字調整至最接近的小數點後兩位表示
- (2) 包括環保能源所有位於中國的運營垃圾發電項目



Notes:

- (1) Figures are rounded to the nearest integer
- (2) Covers all Environmental Energy's operating waste-to-energy projects in China

附註：

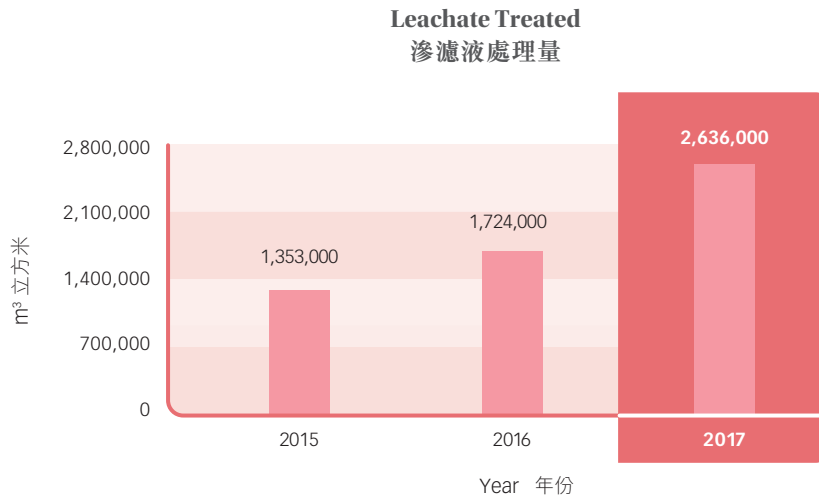
- (1) 數字調整至最接近的整數表示
- (2) 包括環保能源所有位於中國的運營垃圾發電項目

In addition, we collect, treat and recycle waste water generated from our plant operations. In our waste-to-energy projects, leachate is treated onsite and reused as cooling water. In this case, not only water resources can be fully utilised, but the time and energy required for cooling will also be reduced. During the Reporting Period, we treated approximately 2,636,000 m³ of leachate, reducing chemical oxygen demand (COD) discharge by approximately 80,000 tonnes. The Company had no spilling accidents in 2017.

另外，我們對廠內運營過程中產生的污水進行回收，並加以處理及循環利用。在我們的垃圾發電項目中，我們把滲濾液在廠房內先進行處理，然後回用成冷卻水，充分用水之餘亦節省了冷卻所需的時間及能源消耗。我們於報告期內處理滲濾液約2,636,000立方米，減少了約80,000噸化學需氧量(COD)排放。本公司於二零一七年沒有發生洩漏事故。

Leachate Treated (m³)

滲濾液處理量 (立方米)



Notes:

- (1) Figures are rounded to the nearest thousand
- (2) Covers all Environmental Energy's operating waste-to-energy projects in China

附註：

- (1) 數字調整至最接近的千位數表示
- (2) 包括環保能源所有位於中國的運營垃圾發電項目

Cherishing resources and reducing wastage are an essential part of our environmental protection practice. Recycling and reusing are widely practised in our facilities and even offices and staff quarters. We recycle wastes such as paper, metal, plastic, food waste, cooking oil, etc., striving to implement our philosophy of valuing resources through practical actions. Through the organisation of internal contests to “reduce resource consumption, enhance efficiency, conserve energy and slash costs”, our project companies have successfully reduced the integrated power consumption ratios and operating energy consumption, to the extent their daily operation and ESHS performance are not adversely affected.

惜物減廢是我們實踐保護環境的重要一環。我們從設施及至辦公室和宿舍等均執行廢棄物回收以及重用，回收的廢棄物包括紙張、金屬、塑料、廚餘和食油等，務求以實際行動貫徹我們重視資源的理念。在不影響項目日常運作及項目公司ESHS表現的大前提下，旗下項目公司全面開展了「比節支節流，比開源增效，比能耗下降，比成本降低」的內部競賽，成功降低了各項目的綜合廠用電率及於運營中消耗的能源。

Waste Recycled (kg)

廢棄物回收量 (公斤)

Paper 紙張	Metal 金屬	Plastic 塑料	Food waste 廚餘	Cooking oil 食油	Total 總計
7,538	386,304	266	199,744	17,455	611,307

Notes:

- (1) Figures are rounded to the nearest integer
- (2) Excludes the performance of Environmental Water and Greentech business sectors

附註：

- (1) 數字調整至最接近的整數表示
- (2) 不包括環保水務和綠色環保業務板塊的表現

We cultivate and maximise employee potential,
and Build the Path to Success

激發員工潛能，搭建成功之路



The Company attaches great importance to human resources management. In line with the "People-Oriented" objective, we treat every employee as our valuable asset, aiming at integrating staff self-valuation and the development process of the Company, which gradually lead to a talent development approach with their own characteristics. We lay stress on establishing appropriate talent strategies to ensure our employees thrive in a decent working environment as well as in fair and challenging opportunities.

本公司一向高度重視人力資源管理，貫徹「以人為本」的宗旨，視每位員工為我們的寶貴財富，務求把員工的自我價值和企業的發展進程結合，逐漸形成具自身特色的人才發展理念。我們重點建立適宜的人才戰略，確保員工在良好的工作環境和公平、具挑戰性的機會中茁壯成長。

All employee statistics disclosed in this section include business sectors of Environmental Energy, Envirotech and Equipment Manufacturing.

本節中所披露的員工統計數據包括環保能源、環境科技及裝備製造業務板塊。



Total number of employees	員工總數	4,022
By gender	按性別劃分	
Male	男性	3,222
Female	女性	800
By age	按年齡劃分	
30 and below	30歲及以下	2,081
31 – 40	31 – 40歲	1,423
41 – 50	41 – 50歲	439
51 and above	51歲及以上	79
By employee ranking	按員工職級劃分	
Senior management	高級管理人員	233
Middle-level management	中層管理人員	428
General and technical staff	一般及技術員工	3,361
By location	按地區劃分	
Hong Kong	香港	33
Mainland China	中國大陸	3,989
Hires from local province	來自本省的員工	2,838
Hires from other provinces	來自外省的員工	1,151

Note:

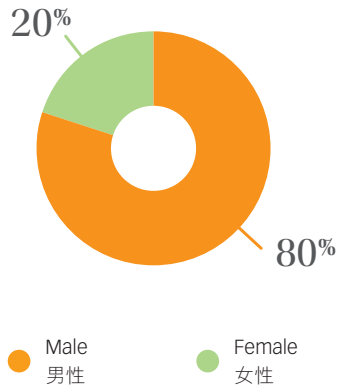
附註：

(1) As at 31 December 2017

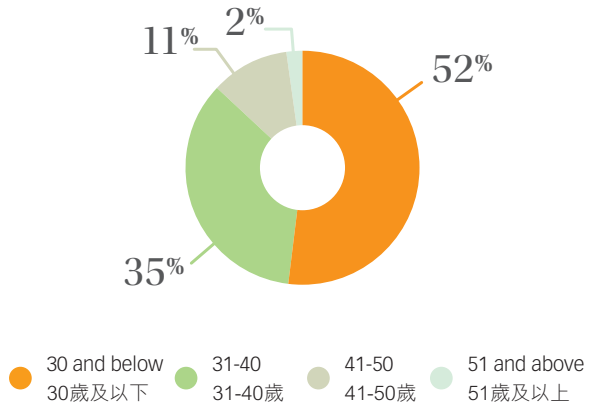
(1) 截至二零一七年十二月三十一日

Statistics on Diversity of Employees in 2017
二零一七年員工多元化統計

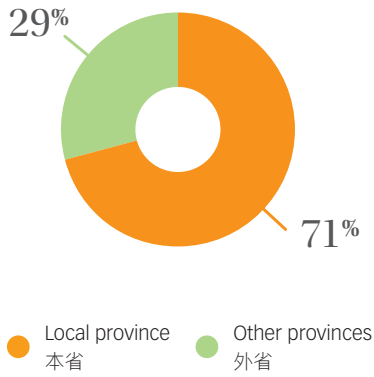
By gender
按性別劃分



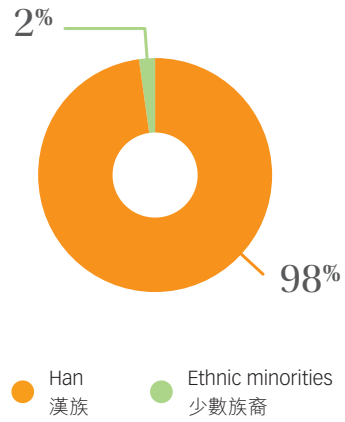
By age
按年齡劃分



By location
按地區劃分



By ethnicity
按民族劃分



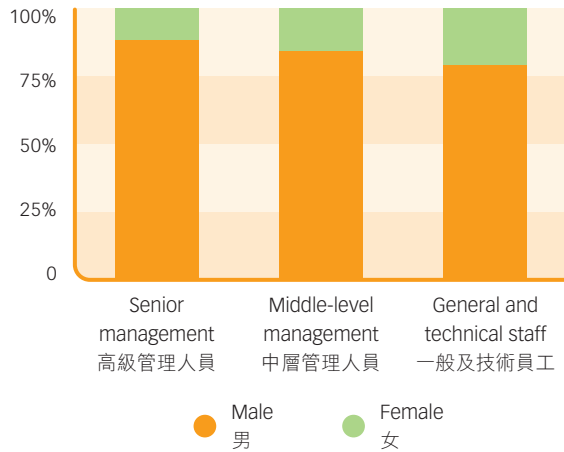
Notes:

- (1) Figures are rounded to the nearest integer
- (2) As at 31 December 2017

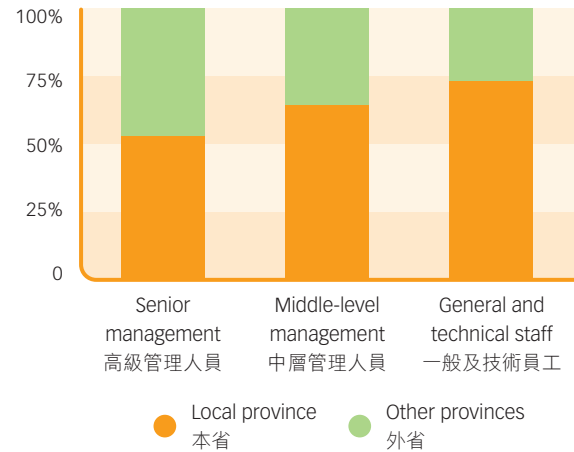
附註:

- (1) 數字調整至最接近的整數表示
- (2) 截至二零一七年十二月三十一日

Male to female ratios by employee ranking
各員工職級的男女比例



Employees hired by locations
按地區劃分的受僱員工



Talent Recruitment and Retention

Through internal training initiatives as well as via local, overseas and on-campus recruitment, we continue to build up and strengthen our talent pool. We have established an inventory of technical cadres, back-up management, and a corresponding evaluation and selection mechanism, creating a platform for employees on career and personal development. During the Reporting Period, the Company continued to review the remuneration system to ensure that our employees' remuneration aligns with reasonable market levels in maintaining our competitiveness. In 2017, the number of new employees accounted for 37.42% of the total workforce, while staff turnover or retirement accounted for 7.04% of the total workforce.

廣納及保留人才

我們通過自身培養、社會招聘、海外招聘、校園招聘等方式不斷加強人才隊伍建設，更建立了技術幹部人才庫、後備管理及相應的考核選拔機制，為員工搭建職業生涯和個人成長的平台。於報告期內，本公司繼續審視薪酬體系，以確保我們的員工薪酬處於市場合理水平，並具有競爭力。二零一七年，新聘員工數目佔總人數的37.42%，離職或退休的員工數目佔總人數的7.04%。

Through collaboration with professional recruitment agencies and higher education institutions, the Company actively brings in local and foreign technical and management specialists via on-campus, local and overseas recruitments. We seek to provide open and equal employment opportunities and platforms, where the ability and qualification of candidates remain as the most important assessment criteria in the recruitment process, factors such as gender, age, and race will not affect the chance of the applicants. We also offer internal competitive selection and promotion opportunities through public announcement in the human resources database, voluntary application and bottom-up recommendation, so that competent and aspiring staff can land the right positions with greater prospects for growth and development. During the Reporting Period, there were 14 Deputy General Managers promoted to General Managers as well as 9 backup management personnel promoted to General Managers, Construction Supervisors or Project Preparation Team Leaders of our new projects. There are currently over 300 backup management personnel who will provide fresh manpower and play major roles in the future development of the Company.

本公司透過與專業招聘機構、高等院校合作，從校園、本地，甚至海外積極引進技術及管理專才。我們務求提供公開而平等的就業機會與平台，在招聘的過程中應徵者的能力和資質為最重要的考核要素，絕不因為性別、年齡、種族等其他因素影響應徵者的機會。我們亦透過在人才庫中公開發布招聘訊息，以自願報名及由下至上推薦等形式提供內部競聘及選拔的機會，讓有能力、有理想的員工在適當的崗位有更大的成長和發揮空間。於報告期內由副總經理獲晉升為總經理的共有14人，而後備管理人員赴任新項目的總經理、總指揮或籌備組長的數目為9人。目前共有超過300名後備管理人員，作為本公司未來發展的主力軍和生力軍。

New Hires Statistics in 2017

二零一七年新聘員工統計

		Number of new hires 新聘員工總數	Percentage of employee by category ^{(1) (2)} 佔該類別 員工百分比(%)
Total number of new hires	新聘員工總數	1,519	37.77
By gender	按性別劃分		
Male	男性	1,252	38.86
Female	女性	267	33.38
By age	按年齡劃分		
30 and below	30歲及以下	974	46.80
31 – 40	31 – 40歲	424	29.80
41 – 50	41 – 50歲	109	24.83
51 and above	51歲及以上	12	15.19
By location	按地區劃分		
Hong Kong	香港	7	21.21
Mainland China	中國大陸	1,512	37.90
Hires from local province	來自同省的新聘員工	1,115	39.61
Hires from other provinces	來自外省的新聘員工	397	31.19

Notes:

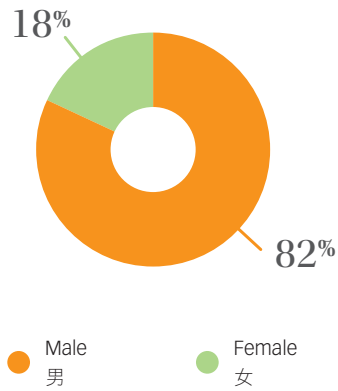
- (1) Figures are rounded to two decimal places
- (2) As at 31 December 2017

附註：

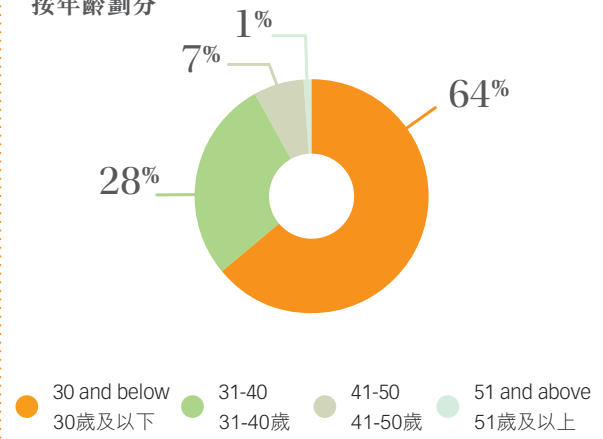
- (1) 數字調整至最接近的小數點後兩位表示
- (2) 截至二零一七年十二月三十一日

New Hires Statistics in 2017
二零一七新聘員工統計

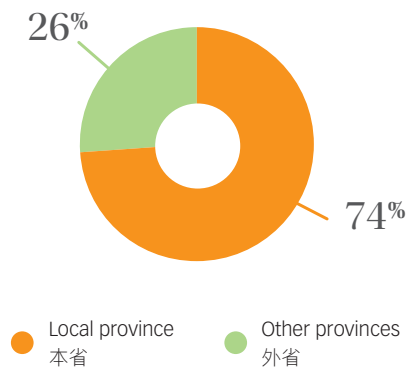
By gender
按性別劃分



By age
按年齡劃分



By location
按地區分類



Note:

(1) Figures are rounded to the nearest integer

附註：

(1) 數字調整至最接近的整數表示

Employee Turnover (Resigned/Retired) Statistics in 2017 二零一七年員工流失(離職/退休)統計

		Number of employee turnover 流失員工總數	Percentage of employee by category ^{(1) (2)} 佔該類別 員工比率(%)
Total number of employees turnover (resigned / retired)	員工流失(離職/退休)總數	283	7.04
By gender	按性別劃分		
Male	男性	231	7.17
Female	女性	52	6.50
By age	按年齡劃分		
30 and below	30歲及以下	169	8.12
31 – 40	31 – 40歲	93	6.54
41 – 50	41 – 50歲	18	4.10
51 and above	51歲及以上	3	3.80
By location	按地區劃分		
Hong Kong	香港	8	24.24
Mainland China	中國大陸	275	6.89

Notes:

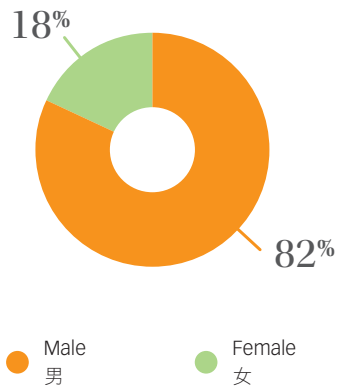
- (1) Figures are rounded to two decimal places
- (2) As at 31 December 2017

附註:

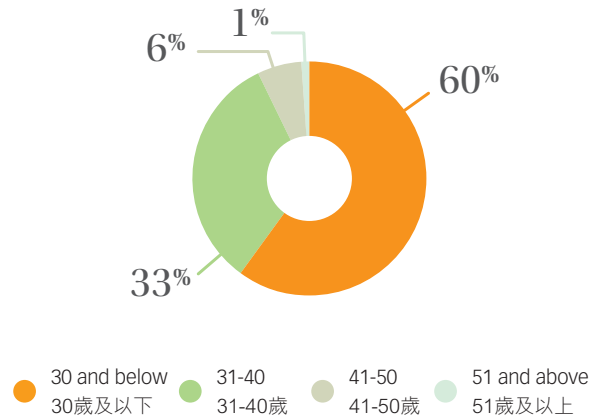
- (1) 數字調整至最接近的小數點後兩位表示
- (2) 截至二零一七年十二月三十一日

Employee Turnover (Resigned/Retired) Statistics in 2017 二零一七年員工流失（離職／退休）統計

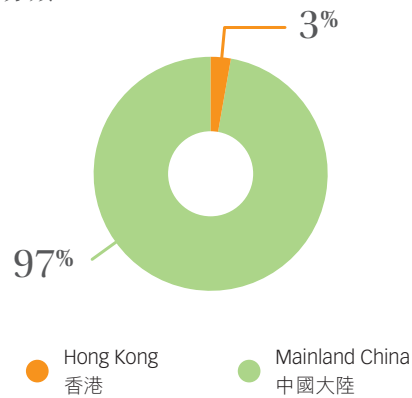
By gender 按性別劃分



By age 按年齡劃分



By location 按地區分類



Notes:

- (1) Figures are rounded to the nearest integer
- (2) As at 31 December 2017

附註：

- (1) 數字調整至最接近的整數表示
- (2) 截至二零一七年十二月三十一日

As a leading player in the green power generation industry, we value the professional knowledge of our employees. Knowing that training of a senior technician can take up to 7 years, the Company monitors the number of employees who are going to be eligible for retirement in every year in order to formulate a human resource strategy while providing appropriate career management plans for our employees, including retirement arrangements for eligible staff.

Percentage of Employees who will be Eligible for Retirement in 5 and 10 Years (%)

Employee ranking	員工職級	In 5 years 5年內	In 10 years 10年內
Senior management	高級管理人員	6.22	20.75
Middle-level management	中層管理人員	2.61	3.55
General and technical staff	一般及技術員工	0.30	1.01
Total	總計	9.13	25.31

Note:

(1) Figures are rounded to two decimal places

Training and Development

We strongly believe that human resources building is a cornerstone of corporate strategic management and untapping the potentials of every employee plays a crucial role in the Company's long term development. With a view to mutual growth and the sharing of benefits between employees and the Company, we actively invest in human resources to facilitate the effective transfer of industry knowledge and expertise through the provision of training in business development, integrated engineering construction framework and related skills, developments in the waste-to-energy industry, safe production, operation of human resources system, CEO training and other areas, thereby helping employees to improve their skills and realise their potentials. We have also been maintaining close relationship with Tsinghua University and various reputable higher educational institutions, co-organising training courses to enhance the leadership and management capabilities of our core team, expanding their interpersonal networks at the same time. In 2017, 43 senior management and technical leaders successfully completed the CEO course (6th session) at Tsinghua University. The 7th session of the course, started in October 2017, was joined by 56 managers. During the Reporting Period, the average training time per employee was over 126 hours, laying a firm foundation for the talent pool and corporate sustainable development.

作為綠色發電行業的領先企業，我們重視員工的專業知識水平。我們深明培育人才需時，培養一位技術骨幹需時可長達7年之久。因此，本公司每年均會統計即將合資格退休的員工數目，長遠考慮及制定人力資源政策。同時為員工提供包括退休安排的妥當職業生涯管理計劃。

5年及10年內合資格退休的員工百分比(%)

附註：

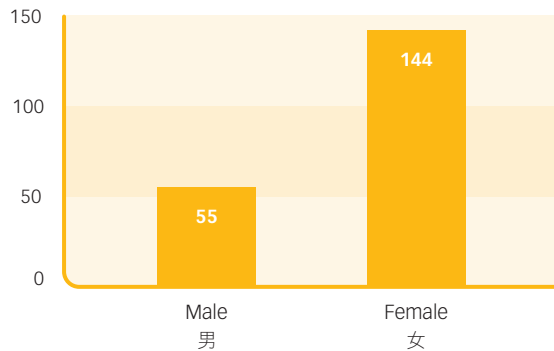
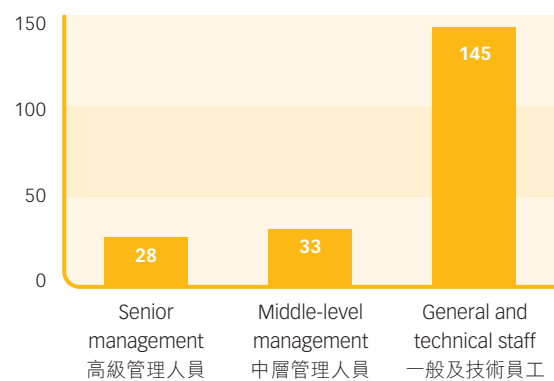
(1) 數字調整至最接近的小數點後兩位表示

培訓及發展

我們深信人力資源建設是企業戰略管理的基石，發揮每個員工的潛力對公司業務長遠發展更是舉足輕重。為推進公司與員工共同發展及共享成果，公司積極投入於人力資源，透過拓展培訓、全系統工程建設制度及技能培訓、垃圾發電行業發展培訓、安全生產主題培訓、人力資源系統操作培訓、行政總裁培訓等工作，我們旨在有效傳遞行業及專業知識，從而提高員工技能。我們更一直與清華大學等著名學府保持友好合作關係，聯合舉辦培訓班，提升骨幹隊伍的領導才能和管理能力，拓展人際網絡。二零一七年，共有43名高級管理人員及技術骨幹順利完成了清華大學CEO班（第六期）。第七期課程亦在二零一七年十月開學，並有56名管理人員參加。於報告期內，本公司的員工人均培訓時數超過為126小時，為人才儲備及企業持續發展打穩基礎。

Average Training Hours Per Person (Hour) in 2017

二零一七年人均培訓時數(小時)

By gender
按性別劃分By employee ranking
按員工職級劃分

In order to enact the promise of sustainable development, we are committed to providing regular and comprehensive trainings for our employees, helping them develop their potential and even become future leaders. We offer courses such as operational skills training, professional training and legal training based on the training needs of our employees and proactively provide exchange opportunities with local and foreign industry peers, aiming to broaden and deepen employees' professional knowledge and understanding of the industry. The annual apprenticeship program and execution trainings have also strengthened the link between employees and helped new recruits to understand Everbright International's corporate culture more quickly and build a sense of belonging. We held 4 execution trainings in 2017 with over 1,300 participants.

為履行可持續發展的承諾，我們著重為員工提供定期及全面的發展培訓，致力幫助員工發展潛質，甚至成為未來領袖。我們根據員工的培訓需求提供包括運營技能、專業和法律培訓等多元課程，更積極為員工爭取與國內外同行交流的機會，旨在拓寬和深化員工對專業知識和對行業的了解。每年的「師帶徒」培訓計劃和執行力拓展培訓亦加強員工之間的聯繫，亦有助新入職員工更迅速地了解光大國際的企業文化，對公司建立歸屬感。我們於二零一七年舉行了4次執行力拓展培訓，參加人數超過1,300人。



The Company also values the internal inheritance and exchange of human resources. Our established regions provide support and training to new regions, facilitating the development of new regions with the solid foundation of old regions. We have also formulated flexible and diversified internal personnel support and exchange policies to create a new phase of “learning while doing, doing while learning, helping with supporting”, reinforcing the support from existing projects to the new ones through combining regional human resources. Assessments were also established to effectively improve employees’ working quality, competitiveness and enthusiasm. All employees have benefited from the constructive feedback and career planning advice from their formal appraisals.

Welfares and Safeguards

To build a sustainable and stable team, the Company observes stringent compliance with local labour regulations, with a strong emphasis on assuring comprehensive welfares and safeguards for employees. The Company implemented a compensation and benefits system to further provide employees with competitive remuneration. Our full-time employees are entitled to life insurance, medical care, disability and invalidity coverage, parental leave, as well as regular bonus payments. To ensure the physical and mental health of employees, Everbright International offers free body checks and occupational disease prevention checkups for employees on an annual basis. Furthermore, in connection with retirement protection, we have also tailored a supplementary pension system for our employees as an additional retirement benefit on top of the mandatory endowment insurance required by law.

We aim at developing the Company as a platform for employees’ career development and enjoyment. We offer various leisure and sports activities such as sports days, basketball games, photography classes, regular birthday celebrations to light up the office atmosphere and enhance bonding among employees. For projects located in remote areas, we provide comfortable and well-equipped staff quarters for our employees with multiple recreational facilities including badminton courts, gymnasiums, chess and bridge rooms, libraries, etc., to help employees relax and achieve work-life balance.

本公司亦著重人力資源的內部承傳和交流。本公司的老區域對新區域提供人才支援、培養和輸送計劃，以老區域的堅固基礎帶動新區域的發展，制定了靈活多樣的人才內部支援和交流政策，形成了「學中幹、幹中學、幫帶扶」的新局面，通過集約區域的人力資源，加強了老項目對新項目的支持。我們亦設立員工的考核制度，有效提升員工的工作質素、競爭力及積極性。所有的員工均從各自的績效考核中得到了具建設性的反饋和職業生涯規劃建議。

福利及保障

為建立一個可持續和穩定的團隊，本公司謹守當地勞工法例，尤為重視完善員工的福利與保障。本公司實施薪酬福利制度，進一步為員工提供具競爭力的報酬。我們的正式員工享有人壽保險、醫療保健、傷殘及疾病保障、產假及侍產假等福利，而且定時獲發獎勵花紅。為確保員工的身心健康，光大國際每年均為員工提供免費的身體檢查服務及職業病防範檢查。另外，有關員工的退休保障，我們除了提供法律規定的強制性養老保險之餘，更貼心製訂了員工補充養老制度作為額外的退休福利。

我們希望公司能夠成為員工成長打拚及享受生活的平台。我們舉辦多項文娛休閒及體育活動，例如運動同樂日、籃球友誼比賽、攝影班及定期生日慶祝活動等，為本公司注入活力，亦讓員工能互相交流以加強凝聚。在位置比較偏遠的項目，本公司為員工建立舒適而設有完善配套的宿舍，當中的休閒設施包括羽毛球場、健身房、棋牌室及圖書館等，讓員工適時放鬆，平衡工作與生活。



We believe that employees' opinions can help improve our daily operation management, and we strive to provide them with suitable communication channels and platforms. The Company welcomes its employees to communicate with the CEO and/or Chairman of the Audit Committee directly through email, so as to express their thoughts about the Company. Our grievance mechanisms cover different topics including employee relations, human rights, workplace harassment and discrimination, etc., providing employees a platform to share their views, and express their concerns on corporate governance. We also regularly publish two internal publications, namely, "Everbright Environmental Protection Newsletter" and "Everbright International Monthly Magazine", allowing employees to receive updated information, grasp the Company's latest development and express their opinions.

The Company upholds the principles of equal employment opportunity, appreciates and respects diversity. Reasonable remunerations, working hours and benefits in compliance with labour legislations are provided to employees, whose wages are determined based on their work experience, job nature, work performance and market condition, with an aim to create fair opportunities for all employees. In view of the male dominating situations in energy and engineering industries, the Company pays special attention on gender equality and equal remuneration, striving to ensure that the salary level and structure will not be affected by gender factors. No discrimination case has been identified within the Reporting Period.

The Company is committed to complying with laws and regulations on the protection of rights and interests of different genders, and safeguarding the rights of vulnerable groups. We offer sufficient maternity leave to pregnant employees as well as paternity leave to male employees, retain job positions for employees on parental leave and encourage their return, and ensure career development and remuneration remain unaffected by the parental leave.

Everbright International adopts a policy of zero tolerance on child labour and forced labour, and strictly complies with major human rights declarations and applicable labour laws in the employment of labour. We apply our standards with consistency and even go a step further to assess whether our suppliers are engaged in improper labour practices, so that the concept of fair labour is extended throughout the entire supply chain. During the Reporting Period, we were not aware of any incidents of child labour and forced or compulsory labour involving our project companies and suppliers.

我們相信員工的意見有助我們完善日常的營運管理。因此，我們致力為他們提供合適的溝通渠道和平台。本公司歡迎員工透過電郵與行政總裁及／或審核委員會主席直接進行溝通，以表達對本公司的想法。而我們所設立的申訴機制覆蓋勞資關係、人權、職場騷擾及歧視等多個方面，供員工循序提出申訴、發表意見及提出對本公司管治的關注。我們更定期出版內部刊物－「光大環保報」和「光大國際月刊」，讓員工更快更新地掌握公司資訊和動向，並發表己見。

本公司堅持平等就業的理念，欣賞以及尊重多元文化。本公司按照勞工法例為員工提供合理的工資、工時及待遇，並根據他們的工作經驗、工作性質、工作表現以及市場情況計算及釐定薪酬，積極締造平等的就業機會。有鑑於從事關於能源和工程行業的人力資源分布側重於男性，本公司特別關注性別平等與薪酬待遇等議題，務求減低性別因素對薪酬水平及結構的影響。於報告期間，我們並沒有任何與歧視相關的個案。

公司致力遵守有關性別權益保障的法例，並維護弱勢員工的權利，包括給予懷孕員工充足的產假，以及給予男員工待產假等。我們為在產假／待產假中的員工保留崗位，鼓勵他們再次投入公司，並保證其職業發展和薪酬不因而受影響。

光大國際對於童工及強迫勞動採取零容忍的態度，同時嚴格按照主要人權宣言及勞動法規的要求用工。我們貫徹始終，甚至評估供應商是否存在相關用工不當的行為，為求把公平的勞工理念延伸至整條供應鏈。於報告期內，我們並未發現任何項目公司和供應商存在使用童工或強迫或強制勞動之事件。

Employee Key Statistics 2017 – Parental Leave

二零一七年員工主要數據－產假／侍產假

Indicators 指標	Gender 性別	2017 二零一七年
Number of female and male employees who took parental leave 放產假／侍產假的男女員工數目	Male 男	138
	Female 女	53
Total number of employees who returned to work after parental leave 產假／侍產假結束後重返工作崗位的員工總數	Male 男	134
	Female 女	50
Total number of employees who returned to work after parental leave that were still employed 12 months after return to work ⁽²⁾ 產假／侍產假結束後重返工作崗位並於12個月後仍在職的員工總數 ⁽²⁾	Male 男	89
	Female 女	24
Return to work rate of employees who returned to work after parental leave ⁽¹⁾ 產假／侍產假結束後重返工作崗位的員工比率 ⁽¹⁾	Male 男	97.10 %
	Female 女	94.34 %
Retention rate of employees who returned to work after parental leave that were still employed 12 months after return to work ⁽¹⁾ 產假／侍產假結束後重返工作崗位並於12個月後仍在職的員工保留率 ⁽¹⁾	Male 男	97.80%
	Female 女	96.00%

Notes:

- (1) Figures are rounded to two decimal places
- (2) As at 31 December 2017

附註：

- (1) 數字調整至最接近的小數點後兩位表示
- (2) 截至二零一七年十二月三十一日

Health and Safety

Employees' occupational health and safety is an indispensable part of our human resources. In order to provide a work environment free from hazards and injuries, we strictly adhere to the ESHS Management System, where standardised operating procedures and checklists for onsite work are set up for all projects. Furthermore, our safety management system requires the inclusion of occupational health and safety considerations in the supplier contracts, which effectively extends the safety culture and policies into our supply chain.

All of the project companies under our business sectors have devised contingency plans specific to the potential risks of the respective areas and management processes of the plant to ensure the safety management of the project company premises and nearby communities. Safety committees are formed for all construction projects, while a safety management team headed by the general manager and run by the safety and environmental commissioner is set up under each operating project, with the aim of supervising and managing all health and safety issues emerging in different stages of the projects. The team is also responsible for arranging emergency drills to raise employees' awareness on safety issues and to enhance their ability in crisis management. The emergency response plans are revised and improved on a regular basis based on actual needs according to the review mechanism. We also actively promote the internationally recognised OHSAS 18001 Occupational Health and Safety Management System at our operating project companies to ensure operational safety.

To enhance employees' safety awareness, we have integrated ESHS into our corporate culture. For example, we launched "Safe Production Month" in June, featuring training sessions on safety related topics, discussion forums and ESHS knowledge contests, providing impetus for the enterprise in general to gain a deeper understanding of occupational safety and health issues. To equip employees with practical crisis management skills and a high level of safety awareness, we organise emergency drills on a regular basis to prevent accidents. In 2017, the injury rate of employees and contractors were 0.12 and 0.27 respectively, and we, as gatekeepers, will strive to maintain the best practices.

安全與健康

員工的職業健康與安全是人力資源不可缺少的一環。為了給員工提供無傷害及無事故的工作環境，我們堅守ESHS管理體系，於各項目均建立了標準操作流程和現場工作檢查表。此外，我們的安全管理體系要求把職業健康和安全的考慮納入供應商合約中，有效地將安全文化和政策延伸到我們的供應鏈中。

本公司各業務板塊的項目公司均設有專門的應急預案，對應廠區不同範圍和管理流程的潛在風險，為項目公司和鄰近社區的安全管理把關。所有建設項目中，我們設立安全委員會，在運營項目則設由總經理牽頭、環衛專員執行的安全管理團隊。這些措施旨在監督和管理項目各個階段的健康和安全的各項事宜。團隊更負責籌劃應急演習和演練，務求提高員工對安全問題的意識，及應對危機時的處理技巧。應急方案將按評估機制定期按照實際需要作出相應的調整及改進。為保障運營安全，我們積極於運營項目公司推行獲國際認證的OHSAS 18001職業健康和安全管理體系。

為加強員工的安全意識，我們將ESHS融入於企業文化中，例如六月的「安全生產月」引入了安全主題培訓、研討會和ESHS知識競賽等活動，帶動整個企業投入了解職業安全及健康方面的資訊。為使員工掌握實用的危機處理技巧和保持高度的安全意識，我們定期組織緊急演練，實行防範於未然。在二零一七年，本公司員工及承包商的工傷率分別為0.12及0.27，我們將繼續做好安全保衛工作。

Key Occupational Health and Safety Statistics in 2017

二零一七年主要職業健康與安全數據統計



Notes:

附註：

- (1) Includes Everbright International’s employees and independent contractors working onsite, such as cleaning workers and security guards (but excludes Environmental Water and Greentech)
- (2) Injury rate (IR) = (Total number of work-related injuries/Total working hours) x 200,000; figures are rounded to two decimal places
- (3) Includes only Everbright International’s employees (excluding Environmental Water and Greentech)

- (1) 包括光大國際員工和獨立承包商的項目駐場工人，如清潔、保安等工作人員（但不包括環保水務和綠色環保）
- (2) 工傷率(IR)=(工傷個案總計/工作總時數)×200,000；數字調整至最接近的小數點後兩位表示
- (3) 僅包括光大國際員工（不包括環保水務和綠色環保）

CASE STORY

個案分享

Fei County Project Safety Experience Centre Completed Construction and Commissioned
費縣項目安全體驗館建成投用

In order to practically raise safety awareness amongst construction workers and to instil an uncompromising "safety-first" culture in our operations, the Fei County Waste-to-energy Project commissioned a safety experience centre to improve the effectiveness of safety education and training. The centre provides 7 safety experience trainings, including opening falls, integrated electricity usage, fire extinguisher demonstrations, helmet impacts and safety belt usage. Through such safety experience training, construction workers can experience various potential harms under non-safe operations, achieving the educational effect of "Once bitten, twice shy". Afterwards, workers will treasure their lives and act in full compliance of safety regulations.

為了切實提高施工人員的安全意識，及將堅守不移「安全第一」文化植根於我們的運營中，費縣垃圾發電項目專門建成並投用了安全體驗館，以改善安全教育培訓的效果。安全體驗館內設置了開口部墜落體驗、綜合用電體驗、滅火器演示體驗、安全帽撞擊體驗、安全帶的使用體驗等7項安全體驗。通過這些安全體驗，可以讓施工人員體驗到多種不安全操作潛在的危害，達到「一朝被蛇咬，十年怕井繩」的教育效果，這樣一旦體驗過以後，施工人員會更加珍惜自己的生命，確保安全遵章操作。

We commit ourselves to social responsibilities and
Protect Our Lush Mountains and Lucid Waters
保護青山綠水，重擔社會責任



Proactive undertaking of social responsibilities represents one of the core values upheld by the Company. Hence we are keen to dedicate resources to community care and charitable activities. We wish to enhance our ties with the communities by motivating each and every member of the Company to promote activities in areas such as environmental education, environmental friendliness, energy conservation and ecological protection. In 2017, we made charitable donations amounting to HK\$22,947,000 and our staff spent a total of 1,584 hours in volunteer services, underlining our bond with the community and our commitment to charitable actions for its welfare.

Our project companies are located across various regions which have provided employment platforms and opportunities for the surrounding communities, substantially improving the living qualities of the local residents. Moreover, we persist in providing harmless treatment and resource recovery of household waste to ensure our waste-to-energy plants not only harmonise with the communities, but also play a demonstration and education role. This indicates the Company's ceaseless efforts in fulfilling its environmental and social responsibilities and we are more than happy to share the achievements with the society as we join hands to create a green future. During the Reporting Period, our environmental protection projects have shouldered the responsibility to promote environmental protection education and received over 90,000 local and foreign visitors from all social circles. These visits have enhanced the general public's understanding of environmental protection work, at the same time signifying our close interactions with our stakeholders.

積極承擔社會責任是本公司所重視的核心價值，我們樂於將資源投放於社區關懷及公益活動。我們希望透過帶動公司上下促進環保教育及環境友好、節能、生態保護等方面活動，增強與社區的聯繫，回饋社會。我們於二零一七年的捐款總金額為港幣22,947,000元，義工總時數為1,584，象徵著公司上下心繫社區和致力造福社群的愛心。

我們的項目公司遍布各地，為周邊群體提供就業平台及機會，使當地的居民生活水平大幅提高。另外，我們一直堅持以無害化及資源化的方式處理生活垃圾，確保垃圾發電廠與民為鄰之餘，更起到示範和教育的作用。此舉展示了本公司履行環保社會責任不遺餘力，同時樂於社會分享其成果，共創綠色未來。於報告期內各環保項目肩負起環保教育宣傳使命，共接待國內外各界人士參觀考察超過90,000人，通過參觀考察，加強民眾對環保工作的認識，亦體現了我們與持份者的緊密互動。



"Boluo Waste-to-energy Project Phase I is a sustainable development project that applies advanced technologies. In an odourless environment, we learned about the operation of a waste-to-energy plant in detail. We also observed the waste tipping process through the windows of the visitors centre, as well as the incineration of waste through the video cameras installed in the plant. This eco-park is also equipped with a jogging trail and a pavilion, where visitors could enjoy the lake view of the garden. Amongst the waste-to-energy plants in the world, Boluo Waste-to-energy Project Phase I is distinct in the sense that it welcomes visits by the public as well as students. It was an unforgettable, refreshing and unique experience in visiting the plant which provides a clean and pleasant environment."

「博羅垃圾發電項目一期是一個應用高科技的可持續發展項目。在這個無異味的環境下，我們清楚了解到垃圾發電廠的運作。我們亦能透過遊客中心內的玻璃窗觀察垃圾傾卸的過程，以及透過廠房內的攝像鏡頭監察垃圾焚燒的情況。這個環保生態園亦設有愜意的緩跑徑和涼亭，讓參觀者飽覽內園的湖景。博羅垃圾發電項目一期是全球罕有地開放給公眾和學生參觀的垃圾發電廠。在這個低污染和環境優美的廠房中參觀，是一個難忘、耳目一新和獨特的體驗。」



**Students from Hong Kong
visiting the Boluo Waste-to-
energy Project Phase I
參觀博羅垃圾發電項目
一期的香港學生**

"I learned advanced waste treatment technologies through this site visit. When I arrived at the project, I saw "white smoke" released from the plant and thought it was a pollutant. Everbright International handled this issue well – the "white smoke" was in fact non-polluted vapour. In addition, I think the Company's technologies are well developed. Not only could these technologies effectively control the odour from waste, but also achieved mechanisation in reducing manual operations and developing towards intelligentisation. Finally, I believe the Company can scale up its waste treatment operations to help resolve the waste crisis in China, and subsequently promote its technologies to the world."

「這次考察活動令我認識到垃圾處理的新型科技。當我去到項目時看見廠房放出的「白煙」，還以為是污染物，誰知光大國際細致周到地把這部分都處理得很好，「白煙」其實是蒸氣，絕無污染。此外，我覺得公司的技術發展得不錯，不但能有效控制垃圾氣味，連運作也達至機械化，減少人手操作，實現智能化。最後，我認為公司可擴大垃圾處理規模，全面覆蓋中國，首先解決中國垃圾圍城危機，然後把技術推廣至全球。」

Everbright International strives not only to build green projects for the society, but also to actively practise and promote ecological conservation through a series of activities. Since 2014, Everbright International Environmental Protection Charitable Foundation has been supporting part of the world's largest collective environmental movement – Earth Hour (Hong Kong region), for 4 consecutive years as the lead sponsor, calling for higher public attentions on climate change and alteration of excessive-consumption lifestyle to advocate the responsibility of reducing emission.

The countdown to Earth Hour is a global environmental protection campaign, which is held annually at 8:30 p.m. on the last Saturday of March. In 2017, the campaign was supported by iconic government buildings, including the Government House, the Legislative Council complex, Liaison Office, Tsing Ma Bridge, the Hong Kong Observation Wheel, etc., with over 10,000 organisations and individuals participating in the campaign.

光大國際不僅致力為社會建設綠色項目，更積極通過具體活動實踐和推動生態文明理念的落地。自二零一四年起，光大國際環保公益基金會已連續四年全力支持全球最大的環保運動－「地球一小時」香港區活動，連續四年擔任活動的首席贊助機構，借此呼籲社會正視氣候變化、改變過度消費的生活方式，共同承擔起減排重任。

「地球一小時」熄燈倒數活動是一個宣傳節能環保的全球性活動，於每年三月的最後一個星期六晚上八時三十分舉行，二零一七年，包括禮賓府、立法會綜合大樓、中聯辦、青馬大橋、香港摩天輪等多個香港著名地標建築均響應熄燈行動，過萬來自各界的機構及個人承諾參與活動。



Also, Everbright International Environmental Protection Charitable Foundation actively promotes environmental protection education towards Hong Kong youngsters and students. Since 2016, the foundation has been supporting Heifer International Hong Kong branch's "Read to feed" fund raising program. The program encourages students to develop reading habits through raising funds by reading, as well as deepen their understanding on poverty and environmental protection issues, and develop a sense of empathy. On the other hand, as arranged by the program, the foundation offers financial support to the poor farmers in the mainland China, alleviating poverty and raising their living standards.

During the Reporting Period, we exclusively supported the World Environment Day 5 June among a hundred colleges, which was co-organised by the China Ecological Civilisation Research and Promotion Association and Beijing Forestry University, aiming at encouraging university students to become leaders of advanced culture, promoters of green business and practitioners of ecological conservation. Over a hundred colleges across the country actively participated in this event in various forms, making the event an important platform for young students to participate in the practice of ecological conservation. The Company believes that the collective efforts of every individual in energy conservation can make a powerful impact. Therefore, we are committed to raising social awareness towards environmental protection and promoting sustainable development by supporting various community activities.

此外，光大國際環保公益基金亦積極支持香港青少年及學生的環保宣傳教育。基金會自二零一六年開始全力支持國際小母牛香港分會舉辦的「開卷助人」閱讀籌款計劃。該計劃鼓勵香港學童通過閱讀籌募善款並養成閱讀習慣，加深對貧困、環保等問題的瞭解，培養同理心，拓展視野，關注地球的可持續發展；另一方面，按照閱讀籌款計劃的安排，基金會以資金捐助的方式幫助國內山區農戶擺脫貧窮，改善生活質素。

報告期內，我們獨家支持中國生態文明研究與促進會及北京林業大學聯合主辦的百所高校「六·五」世界環境日主題活動，旨在鼓勵青年大學生努力成為先進文化的引領者、綠色事業的建設者和生態文明理念的實踐者。全國各地百餘所高校積極響應這次活動，並以不同的形式參與，使活動成為了青年學子參與生態文明實踐的重要平台。本公司相信每個人點滴的節能努力匯集在一起就能凝聚成強大的力量，因此致力透過支持不同的社區活動，從而提高社會的環保意識，推動可持續發展。





In order to spread our corporate culture and humanistic care, our project company in Rizhao delivered study packages for students at Panshi Zhuang Primary School on the “June First” Children’s Day, encouraging them to study well and protect our environment. Besides donating learning materials to students, our project company initiated extracurricular activities, so that students can learn environmental protection knowledge and raise environmental awareness. The school also organises regular visits to Rizhao Waste-to-energy Project for interactive learning, becoming an essential platform to present the message of environmental protection to our future generations. In addition, we distribute recreational items like schoolbags, stationery containers and basketballs to surrounding and distant schools. Emphasising the promotion of social and environmental benefits of ecological development, Everbright International sends love and care into the campus and extends our social influence.

為弘揚光大國際企業文化，傳達人文關懷，在六一兒童節到來之際，日照項目公司為磐石莊小學學生送上兒童節學習大禮包，鼓勵學生們學好功課並愛護環境。除了每年向學生們捐贈學習用品，我們亦會帶領校外課堂，讓孩子們學習環保小知識，從而提高環保意識。而學校亦定期組織學生參觀日照垃圾發電項目和進行互動學習，成為了向下一代傳達環境保護訊息的重要平台。除此以外，我們也為周邊以及偏遠的學校送上書包、文具盒、籃球等文體用品，並重點宣傳綠色發展的社會和環保效益，把光大國際的愛心和溫暖送進了校園，擴大了企業社會影響力。



On the other hand, this year, our “Everbright Environmental Protection Charitable Foundation” continued to provide financial and psychological supports to sanitation workers and their families in Suzhou who are experiencing financial difficulties or critical illness. We have distributed the eighth and ninth batches of “Everbright Environmental Protection Charitable Fund” to sanitation workers in difficulties, delivering care and support from the industry and society to the frontline sanitation workers. As at the end of 2017, the foundation has supported approximately 1,000 beneficiaries, with a total of over RMB4 million delivered as relief funds and financial aids. In addition, the Company’s “Everbright International True Love School” located in Dangshan has provided education opportunities to 450 students. In 2017, we sent the eleventh batch of voluntary teachers to the school to deliver our care to the students through teaching activities. This does not only impart knowledge to students, but also set an example of kindness and charity in passing good deeds.



另外，我們的「光大環保愛心基金會」於本年度繼續為蘇州環衛工人及其家庭就他們的財務困難或嚴重的疾病提供經濟及心理支持。第八、第九批「光大環保愛心基金」已發放至困難環衛工人手中，令一線環衛工人感受到來自行業及社會的關愛和支持。截至二零一七年底，該基金已累計協助約1,000位受益人，共計發放慰問金及救助金逾人民幣400萬元。本公司位於錫山的「光大國際愛心學校」亦已為450名學生提供教育機會，二零一七年派出第十一批支教教師赴校提供教學支援，將愛心持續傳遞。這不僅是知識的傳授，更為學生做了愛心行善的榜樣，傳遞善舉。



Major Science, Technology and Environmental Education Activities in 2017

二零一七年主要科技及環保教育活動

Green Partners 綠色夥伴	Activities 活動
Chinese Society for Environmental Sciences 中國環境科學學會	Annual Academic Conference of Chinese Society for Environmental Sciences 環境科學學會學術年會 Environmental Science Popularisation Day 「環保科普日」活動 Conference on Environmental Pollution Control in Canada 加拿大污染控制大會
China Association of Urban Environmental Sanitation 中國城市環境衛生協會	Professional Committee Development Conference 專業委員會發展大會
All-China Environment Federation 中華環保聯合會	Partnership with China Central Television in producing a Charity Advertisement 聯合中央電視台拍攝垃圾發電公益廣告
China Ecological Civilization Research and Promotion Association 中國生態文明研究與促進會	Issuance of the "Assessment and Management Methods for Municipal Waste-to-energy Ecological Civilization Demonstration Enterprise (Trial)" 發布《生活垃圾焚燒行業生態文明建設示範企業評審管理辦法(試行)》
China Association of Environmental Protection Industry 中國環境保護產業協會	Training on Pollution Source Online Monitoring System Standards and Technical Specifications 污染源在線監測標準及規範培訓班
E20 Environmental Platform E20 環境平台	The 11th Solid Waste Strategic Forum 第十一屆固廢戰略論壇
Renewable Energy Branch under China Electric Power Promotion Council 中國電力發展促進會可再生能源發電分會	Safety production training for waste-to-energy projects 垃圾發電項目安全生產培訓 Waste-to-energy Technology Symposium 垃圾發電新技術交流會

Total economic contributions to Green Partners in 2017:
RMB4,154,000

二零一七年對綠色夥伴的總經濟貢獻：
人民幣4,154,000元

CASE STORY

個案分享

Demonstrating Responsibility through Actions, Delivery of Hope through Caring – The Ninth Batch of “Everbright Environmental Protection Charitable Foundation” was Delivered to Sanitation Workers Who are Facing Difficulties

行動彰顯責任愛心傳遞希望 – 第九批「光大環保愛心基金」發放至困難環衛工人手中

On 10 August 2017, Suzhou project company teamed up with other units including Suzhou Environment and Municipal Administration Bureau, Suzhou Charity Federation and Suzhou Environmental Sanitation Administration Agency, and delivered the ninth batch of the fund to sanitation workers who are facing difficulties and sent them compassion and caring.

On that day, Mr. Tang Yi Cheng, Deputy Director of Suzhou Environment and Municipal Administration Bureau, and Mr. Wu Kai, General Manager of Suzhou project company, came to Daxin New Estate in Pingjiang District of Suzhou to visit a sanitation worker, Mr. Huang. Mr. Huang had been suffering from uremia since 2016. Despite the fact that much had already been spent, Mr. Huang was yet to recover. In order to encourage Mr. Huang and reduce his financial stress, the team of love and care delivered a donation of RMB10,000 to Mr. Huang. The members also exhorted Mr. Huang to plan for a healthy lifestyle, maintain a positive attitude and cooperate with the treatment program, so that he could recover soon.



二零一七年八月十日，蘇州項目公司會同蘇州市容市政管理局、蘇州市慈善總會以及蘇州市環衛處等相關單位，將第九批「光大環保愛心基金」發放至生活困難的環衛工人家庭，給予了慰問和愛心。

當天，蘇州市容市政管理局副局長湯以成與蘇州項目公司總經理吳凱一行來到蘇州市平江區大新新村，看望環衛職工黃先生。黃先生二零一六年患上尿毒症，已支付了高額醫療費，但目前仍未康復。為了鼓勵黃先生以及減輕他的經濟負擔，愛心慰問組送上了一萬元「光大愛心慰問金」，並叮囑他安排好作息時間，保持良好心態，積極配合治療，以爭取早日康復。

CASE STORY

個案分享

Everbright International True Love School's Tenth Caring Education Sponsorship Campaign 光大國際愛心學校開展第十次愛心助學活動

On 18 May, Everbright International True Love School launched its tenth caring education sponsorship campaign, delivering love and care to the outstanding yet impoverished students. At the ceremony, Mr. Cai Lei, principal of True Love School presented the current situation of the school. On behalf of the teachers and students, he appreciated Everbright International whole-heartedly for its continuous care and support. He asked that the students should treat the Company's support and the community's expectation as a motivation to achieve excellent academic results and make continuous improvements. On behalf of Everbright International, the representative of Dangshan project company sincerely expressed that the beneficiaries would study hard, stay strong and pass on love by helping others in need, to become the pillars of society in the future.



Feng Nuo, the student representative, expressed the gratitude towards Everbright International. Feng said that the students would never forget Everbright International's love and care for them. They would study hard, stay strong and pass on love by helping the needy. Since the establishment of Everbright International True Love School on 1 September 2011, Everbright International has been selecting staff members for voluntary teaching, making donations and holding an environmentally friendly summer camp in every year, to fully support the school's development. As of 2017, the number of volunteer teachers has reached 21, greatly enhancing teaching quality. With love and hope, Everbright International's caring actions have already planted the seeds of love among the children. We believe that they are able to make the most of every day with love.

五月十八日，光大國際愛心學校開展第十次愛心助學活動，向愛心學校品學兼優的貧困生送去光大國際的關懷和慰問。助學儀式上，愛心學校蔡雷校長介紹了學校目前的辦學情況，代表全體師生衷心感謝光大國際一直以來的關心和支持。蔡校長號召同學們把滴水之恩化作自強不息、奮發向上的動力，用優異的成績報答光大國際的關懷，不辜負社會各界的殷切期望。礪山項目管理層代表光大國際愛心學校愛心基金會殷切希望受捐助同學勤奮學習，自強自立，並將愛心繼續傳遞下去，多關心幫助身邊需要幫助的人，將來成為社會的棟樑之才。

受助學生代表馮諾表達了感激之情，表示一定不忘光大國際的關心，勤奮學習，自強不息，並努力將這份愛心傳承下去，幫助更多需要幫助的人。光大國際愛心學校自二零一一年九月一日交付使用以來，光大國際每年開展選拔員工支教、愛心捐款、愛心環保夏令營等活動，全力支持學校發展。截至二零一七年，支教員工人數已達21人，大大提升了學校辦學內涵。奉獻愛心，托起希望。光大國際的愛心行動已在孩子們心中種下愛的種子，相信他們定會用愛擁抱每一天。

SUSTAINABLE DEVELOPMENT GOALS

可持續發展目標

The Sustainable Development Goals (“SDGs”) are a series of international development goals announced by the United Nations (“UN”) aimed at making improvements in three dimensions of development issues – social, economic and environmental – in an integrated approach from 2015 to 2030, calling for a switch to the path of sustainable development and endeavouring to create a fairer and more environmentally friendly world with all countries.

Everbright International is an one-stop integrated environmental solution provider focused on the areas of waste-to-energy, water environment management, biomass integrated utilisation, hazardous waste treatment, solar energy, wind power, environmental protection engineering, technological research and development, environmental protection equipment manufacturing, and the planning and construction of environmental protection industrial parks, which aim to improve the ecological environment and prevent pollution. The Company’s vision is aligned with the UNSDGs. We will continue to play a proactive role in implementing various SDGs by minimising environmental impacts through harmless treatment of waste generated from household sources with the application of innovative technology and advanced operation system, construction of various types of environmental protection projects, proper control of emissions to offset environmental impacts arising from household waste disposal, as well as organising and participating in volunteering events and poverty alleviation activities.

The summary below depicts how our activities connect with the 17 SDGs.

可持續發展目標是聯合國發布的一系列國際發展目標，旨在於二零一五年至二零二零年期間以整合方式改善社會、經濟和環境三個維度的發展問題，呼籲所有國家朝著可持續發展的道路進發，致力建立一個更公平、更環保的世界。

光大國際為一站式、全方位的環境綜合治理服務商，專注於垃圾發電、水環境治理、生物質綜合利用、危廢處置、光伏發電、風電、環保工程建設、技術研發、環保裝備製造、環保產業園的規劃及建設，旨在改善生態環境，防止污染。本公司的願景與聯合國可持續發展目標一致，我們未來將繼續以創新的技術和先進的運營系統無害化處理生活垃圾，積極建設各類環保項目、妥善管理排放以抵銷生活垃圾棄置對環境的影響，並透過開展及參與志願活動和扶貧等具體行動參與各項可持續發展目標的落實。

以下概要描述了我們的活動如何與17個可持續發展目標相關聯。



No Poverty
無貧窮

End poverty in all its forms everywhere
在全世界消除一切形式的貧困

To alleviate poverty, we have established the “Everbright Environmental Protection Charitable Foundation” in 2013 to provide financial and psychological supports to frontline sanitation workers and their families who are in need. Since its establishment in 2013, the foundation has donated over RMB4 million to the fund and improved the financial conditions of about 1,000 beneficiaries.

為了減輕貧困，我們於二零一三年成立「光大環保愛心基金會」，為有需要的一線環衛工人及其家庭提供經濟及心理支持。自二零一三年起，該基金一共捐出了逾人民幣400萬元並改善了約1,000人的經濟狀況。



Zero Hunger
零饑餓

End hunger, achieve food security and improved nutrition and promote sustainable agriculture
消除饑餓，實現糧食安全，改善營養狀況和促進可持續農業

Our food waste treatment projects turn food waste into compost, which can in turn support the agricultural development of our project neighbourhoods. Our projects are capable of treating a total of 300 tonnes of food waste per day. 我們的餐廚垃圾處理項目把餐廚垃圾轉換為堆肥，從而支持鄰近地區的農業發展。我們的項目每天能夠處理300噸的餐廚垃圾。



Good Health and Well-being
良好健康與福祉

Ensure healthy lives and promote well-being for all at all ages
確保健康的生活方式，促進各年齡段人群的福祉

All of our waste-to-energy projects' air emissions comply with the Euro 2010 standards. We effectively minimised public health risk through clean production. 我們所有的垃圾發電項目的煙氣排放皆符合歐盟2010標準。我們透過清潔生產有效地減低對公眾的健康風險。

We also proactively cooperate with the government to promote good health and well-being. For example, fake food seized by the Laiwu Food and Drug Administration in 2017 was sent to our Laiwu waste-to-energy plant for treatment to generate green electricity. 我們更積極與政府合作，宣揚健康和福祉。例如，萊蕪市食品藥品監督管理局於二零一七年查獲的假冒食品被送到我們的萊蕪垃圾發電項目銷毀，用於生產綠色電力。



Quality Education
優質教育

Ensure inclusive and equitable quality education and promote lifelong opportunities for all
確保包容和公平的優質教育，讓全民終身享有學習機會

Our waste-to-energy projects have been selected as environmental science education hubs and acted as demonstration sites for circular economy and industrial tourism. We also proactively organise public visits to our facilities, offering every individual with opportunities to understand how environmental infrastructures tackle pollution and enhance the community's living environment. Our projects received over 90,000 local and overseas visitors through visits, study tours and exchange tours in 2017.

我們的垃圾發電項目被選為環保科普教育基地，並作為循環經濟和工業旅遊的示範項目。我們亦積極開放項目設施供公眾參觀，給予公眾機會以了解環保公共設施如何應對污染及提升社區的居住環境。我們的項目於二零一七年通過參觀、考察和交流團，接待了逾90,000名本地和海外訪客。



Gender Equality
性別平等

Achieve gender equality and empower all women and girls
實現性別平等，增強所有婦女和女童的權能

We ensure that our human resources management structure, including compensation, training opportunity, career prospect, etc., is not affected by gender biases, thus achieving gender equality. 我們確保我們的人力資源管理架構，如薪酬水平、訓練機會及就業前景等不受性別影響，從而實現性別平等。



Clean Water and Sanitation
清潔食水和
衛生設施

Ensure availability and sustainable management of water and sanitation for all
為所有人提供水和環境衛生並對其進行可持續管理

We ensure that industrial and domestic waste water produced from our operations are complied with stringent national standards and are reused for purposes such as cooling and landscaping where appropriate, hence reducing our fresh water demand.

我們確保運營生產的工業和生活污水符合嚴格的國家標準，並在適當情況下循環再用在冷卻和園景等用途上，從而減少對淡水的需求。

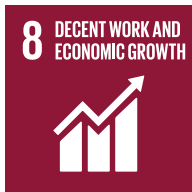


Affordable and Clean Energy
經濟適用的
清潔能源

Ensure access to affordable, reliable, sustainable and modern energy for all
確保人人獲得負擔得起的、可靠和可持續的現代能源

Our waste-to-energy projects generate clean energy by utilising municipal solid waste. In 2017, we have supplied approximately 3,432,697,000 kWh of green electricity onto the grid, which can support equivalent to 2,860,580 households' electricity needs.

我們的垃圾發電項目利用垃圾生產清潔能源。在二零一七年，我們供應上網綠色電力共約3,432,697,000千瓦時，可滿足相等於2,860,580戶家庭的電力需求。



Decent Work and Economic Growth
體面工作和
經濟增長

Promote inclusive and sustainable economic growth, employment and decent work for all
促進持久、包容和可持續經濟增長，促進充分的生產性就業和人人獲得體面工作

Through investment, construction and operation of advanced waste-to-energy facilities, we drive the development of upstream waste collection industries as well as downstream metal and bottom ash recycling industries, completing a sustainable waste management industry chain.

我們透過投資、建造及運營先進的垃圾發電設施帶動了上游垃圾清運行業及下游金屬和爐渣回收行業，形成完整的可持續廢物管理產業鏈。



**Industry,
Innovation and
Infrastructure**
產業、創新
和基礎設施

**Build resilient
infrastructure,
promote sustainable
industrialization and
foster innovation**

建造具備抵禦災害能力的
基礎設施，促進具有包容
性的可持續工業化，
推動創新

We leverage our strong business innovation capabilities to maintain stable operation of our projects and arrive at positive outcomes. For instance, our effective facility maintenance programme has reduced the number of unscheduled shutdown of our facilities to 0.

我們藉助強大的業務創新能力來維持項目的穩定運行和建立建設性的成果。例如，我們有效的設施維修計劃使我們的設施發生的非計劃停機事件減少至0宗。

In 2017, our Envirotech business sector launched various R&D projects. Specifically, the first standard prototype unit of our self-developed 850 tonnes/day grate furnace was manufactured for trial and the development of our fourth generation of leachate treatment technology was underway. Our Envirotech complex in Nanjing also commenced operation in 2017, serving as a centre for R&D, design and technological management.

環境科技業務板塊於二零一七年積極推進各項研發課題的開展。其中，我們完成一個自主研發的850噸／日爐排爐的標準單元試製，也正在開展第四代垃圾滲濾液處理技術。我們位於南京的環境科技大樓亦已於二零一七年全面啟用，成為研發、設計及科技管理中心。



**Reduce
Inequalities**
減少不平等

**Reduce inequality
within and among
countries**

減少國家內部和
國家之間的不平等

We pay special attention in adopting methods to ensure that our project operations do not affect the dignity, rights, livelihood, or culture of indigenous peoples. Local ethnic minorities will be equally respected and treated as the Han majority in working for us.

我們特別關注採取措施以確保項目運營不會影響原住民族的尊嚴、權利、生計或文化。少數民族和漢族在工作上均會受到同樣尊重和對待。



Sustainable Cities and Communities
可持續城市和社區

Make cities and human settlements inclusive, safe, resilient and sustainable

建設包容、安全、有抵禦災害能力和可持續的城市和人類住區

Waste disposal is a serious environmental issue and social challenge brought by urbanisation. Our waste-to-energy projects effectively reduce the volume of household waste through thermal treatment, while the majority of by-products (i.e. bottom ash) can be used to produce bricks, thus relieving pressure on landfills and resolving the waste crisis.

廢物處置是城市化帶來的嚴重環境問題和社會挑戰。我們的垃圾發電項目透過熱處理有效地減少生活垃圾體積，而主要副產品（即爐渣）則可用於製磚，從而減輕填埋場壓力，破解垃圾圍城危機。

We are also the first organisation to develop an environmental protection industrial park model, and has made full use of local resources within the 12 parks, achieving integrated solid waste recycling and providing convenience for governments and enterprises to implement centralised management systems, and ultimately achieve zero pollution discharge.

我們亦是環保產業園模式的首創者，於已推出的12個環保產業園中充分利用園區內資源，實現固體廢物綜合循環利用，便於政府與企業的集中管控，最終實現污染零排放。



Responsible Consumption and Production
負責任消費和生產

Ensure sustainable consumption and production patterns
採用可持續的消費和生產模式

In order to fully utilise resources, the bottom ash generated from our waste-to-energy projects can be used to produce bricks.

為了充分利用資源，我們垃圾發電項目所產生的爐渣可加以利用製成磚塊。

Our Poland's solid waste treatment company (Novago) processes wastes from industrial sources and produces refuse derived fuel to support industrial production, thus closing the materials cycle.

我們旗下的波蘭固廢處理公司(Novago)把工業廢物轉化為垃圾衍生燃料以協助工業生產，從而促進物料閉環。

We also maintain a system to regularly monitor the sustainability performance of our suppliers, thus embedding our commitment to sustainability into the supply chain.

我們還維持了一個體系，以定期監測供應商可持續方面的表現，從而將我們對可持續發展的承諾植入我們的供應鏈。



Climate Action
氣候行動

Take urgent action to combat climate change and its impacts

採取緊急行動應對氣候變化及其影響

Our waste-to-energy projects offset greenhouse gas emissions through avoidance of fugitive methane emissions from waste and generation of green electricity that replaces fossil fuel. Our operations have avoided approximately 4,590,000 tonnes of carbon dioxide equivalent emissions in 2017.

我們垃圾發電項目透過避免垃圾的無組織甲烷排放及產生綠色電力以代替化石燃料的使用，從而抵銷了溫室氣體排放。二零一七年，我們的運營共避免了約4,590,000噸二氧化碳當量排放。



Life below Water
水下生物

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

保護和可持續利用海洋和海洋資源以促進可持續發展

Our projects' site selection complies with stringent environmental impact assessment requirements, which prevent the water bodies and ecological sites nearby the project site from adverse effect.

我們的項目選址均符合嚴格的環評準則，防止對項目周邊的水體和動物棲息地帶來不利影響。



Life on Land
陸地生物

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

保護、恢復和促進可持續利用陸地生態系統，可持續管理森林，防治荒漠化，制止和扭轉土地退化，遏制生物多樣性的喪失

Our waste-to-energy projects help tackle the waste problem in an environmentally sound manner. This results in the avoidance of waste in landfills which could cause environmental problems and affect ecosystems. In 2017, approximately 9,551,000 tonnes of household waste were diverted from landfills.

我們的垃圾發電項目以無害環境的方式應對垃圾問題，避免了垃圾於填埋傾倒所導致的環境問題及對生態系統的影響。二零一七年，約9,551,000噸生活垃圾被避免送入填埋場。



Peace, Justice and Strong Institutions

和平、正義與
強大機構

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

創建和平、包容的社會以促進可持續發展，讓所有人都能訴諸司法，在各級建立有效、負責和包容的機構

As an appreciation of the public's right to know and the importance of public supervision, we promote environmental justice by initiating disclosure of air emission data of our operating waste-to-energy projects to the public domain on an hourly basis.

為了維護公眾的知情權和公眾監督的重要性，我們通過按小時向大眾公布各垃圾發電運營項目的煙氣排放數據，從而倡導環境正義。

In terms of social justice, we follow the requirements of Asian Development Bank ("ADB") to mainstream social concerns into the beginning of project life cycle, thus ensuring that any resettlement associated with our project development will be properly managed in compliance with applicable laws, and all affected people will receive fair and adequate compensation and rehabilitation.

在社會正義方面，我們遵循亞洲開發銀行（「亞發行」）的要求，將社會關注點納入項目生命週期的初始階段，從而確保與項目開發相關的移民安置工作將按照適用法律進行妥善管理，受影響人士將得到公平、充分的補償和修復安排。

We also strive to promote a peaceful and inclusive working environment. Our "Staff Handbook" and "Code of Conduct" prohibit issues such as corruption, bribery, conflict of interest and discrimination within our working environment. In 2017, the Company was not aware of any non-compliance with relevant laws and regulations relating to anti-corruption that had a significant impact on us.

我們亦致力創建和平及包容的工作環境。我們的《員工手冊》和《員工守則》禁止我們的工作環境內出現貪污、受賄、利益衝突和歧視等問題。於二零一七年，本公司並無知悉其未有遵守任何在反貪污層面對本公司有重大影響相關的法律及規例。



Partnership for the Goals

促進目標實現的
夥伴關係

Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

加強執行手段，重振可持續發展全球夥伴關係

We have been partnering with institutions such as ADB and China Development Bank Corporation, etc., collaboratively promote clean energy and environmental protection. We have also promoted the UNSDGs in our internal newsletter to encourage employees' collective participation in pursuing sustainability.

我們一直與亞發行及國家開發銀行股份有限公司等機構合作，攜手宣揚清潔能源及環境保護。我們更於內部報刊中推廣了聯合國可持續發展目標，以提高對可持續發展的重要性的關注並鼓勵所有員工參與追求可持續發展。

At the half-way point of the “13th Five-year Plan”, tremendous development opportunities are created for the environmental protection industry. China further emphasised and extended its commitment to environmental management by implementing various policies on ecological and environmental management and protection, strengthening its environmental protection surveillance activities. Currently, the Company is seizing opportunities brought by national development strategies in close tandem and striving to develop into a world-leading ecological and environmental management group.

In the new year, the Company will proactively respond to the country’s call for “Lucid Waters And Lush Mountains are Invaluable Assets”, and will follow the country’s “Belt and Road” initiatives. As a pioneer in China’s environmental protection industry, we will uphold the “Technology Leads Development” ethos as our main development theme, and continues to implement its strategy of “Expanding from Coastal Areas to Inland Cities, from Cities to Rural Areas, and from Domestic to Overseas Markets” to enhance the existing market. The Company will also proactively expand into new regions, further optimising its six major business sectors’ development trajectories and promoting their developments in a holistic manner.

The Company will continue to uphold our core value of “An Enterprise is not only the Creator of Wealth, but also the Safeguard of Environmental and Social Responsibility”. Relying on its influence and power in the environmental protection industry, the Company will practise what it preaches by being a good corporate citizen that fulfils its promise to relevant regions and stakeholders, such as the environment and communities.

Targets in 2018

Setting forward-looking goals can build a solid foundation for the sustainable development of the Company, and lead to continuous development. Based on our achievement of the targets set in the “2016 Sustainability Report”, our main objectives for sustainable development in 2018, in view of the Company’s significant economic, environmental, and social impacts as well as the concerned issues of our stakeholders, are as follows:

踏入「十三五」規劃的中間年，環保行業的發展機遇處處。國家進一步強調和深化環境管理，落實各項生態環境治理和保護的重磅政策，進一步提升環保措施的規範化和制度化，以及加強環保監察力度。目前，本公司正積極捉緊國家發展規劃所帶來的機遇，致力發展成為全球領先的生態環境集團。

在新一年，本公司將積極響應「綠水青山就是金山銀山」的號召，緊隨國家「一帶一路」發展戰略。作為中國環保行業的領先者，我們將堅定不移地維持「科技引領發展」的發展方向，貫徹「從沿海向內地、從城市向農村、從國內向國外」的發展方針，深耕並鞏固已有市場。本公司亦將積極開拓新市場，進一步優化六大業務版塊各自的主營業務發展路徑，推進六大板塊並駕齊驅。

本公司將繼續秉承「企業不僅是物質財富的創造者，更應該成為環境與責任的承擔者」的核心價值觀，憑藉自身於環保行業的影響力和話語權，身體力行，履行作為良好企業公民的義務，兌現對環境、社區等相關領域和群體的承諾。

二零一八年目標

設定具前瞻性的目標能夠為本公司的可持續發展建立穩健的基礎。在基本達成《二零一六年可持續發展報告》所訂立的年度目標的前提下，根據本公司在經濟、環境和社會方面的重大影響以及持份者所關注的事項，我們在二零一八年有關可持續發展的主要目標如下：

Sustainable Development Aspects 可持續發展範疇	Targets in 2018 二零一八年目標
Operation 運營	<p>Strive to obtain ISO 9001, ISO 14001 and OHSAS 18001 certifications (or equivalent) for each environmental project within one year after the commencement of operation 爭取每個環保項目在投產後的一年內取得ISO 9001、ISO 14001及OHSAS 18001認證（或同等認證）</p> <p>Strive to achieve zero unscheduled shutdown 爭取實現零非計劃停機事故</p> <p>Strive to solve all valid public complaints 致力解決所有有效的公眾投訴</p>
Environment 環境	<p>Increase the total carbon dioxide avoided by environmental projects by at least 5% per annum 環保項目的總二氧化碳減排量年增率不低於5%</p> <p>Maintain waste-to-energy projects' air emissions concentrations at a level not higher than the average rate during the last three years 垃圾發電項目的煙氣排放濃度不高於過去三年的平均水平</p> <p>Increase the number of ISO 14001 certified suppliers 採用更多ISO 14001認證的供應商</p>
Society 社會	<p>Increase average training hours of each employee 增加每位員工的平均培訓時數</p> <p>Maintain injury rate at a level lower than the average rate during the last three years 工傷率維持在低於過去三年的平均水平</p> <p>Conduct customer satisfaction surveys 進行客戶滿意度調查</p>



- Constituent Stock of Hang Seng Corporate Sustainability Index
恒生可持續發展企業指數成份股



- Constituent Stock of Dow Jones Sustainability Emerging Markets Index
道瓊斯可持續發展新興國家指數成份股



- Award for Sustainability Excellence – Hong Kong Corporate Governance Excellence Awards
持續發展卓越獎 – 2017香港公司管治卓越獎



- The Best-Performing CEOs in China 2017 (ranked 14th) – Harvard Business Review
2017中國最佳CEO榜單（位列第14名） – 《哈佛商業評論》

- Constituent Stock of FTSE4Good Index
富時社會責任指數成份股

- Silver Class Distinction – RobecoSAM's 2017 Sustainability Yearbook
銀獎殊榮 – RobecoSAM
《2017年可持續發展年鑒》榮譽獎



- Listed Enterprise Excellence Award 2017 – Capital Weekly
傑出上市企業大獎 2017 – 《資本壹週》



- WWF – Hong Kong – Corporate Member
世界自然基金會 – 企業會員

- Corporate Social Responsibility Awards 2017 – Capital 企業社會責任大獎 2017 – 《資本雜誌》



- Best Social Responsibility Brand – China Charity Festival 年度最佳責任品牌獎 – 中國公益節

- Most Honored Company – Institutional Investor 「最受尊崇企業」 – 《機構投資者》

- Top three in 2017 All-Asia (ex-Japan) Executive Team Rankings – All-Asia (ex-Japan) Rankings – Institutional Investor: 「2017年全亞洲（日本除外）管理團隊」評選排行榜 – 全亞洲（日本除外）工業組前三甲 – 《機構投資者》:

- Best CEO 「最佳行政總裁」
- Best Investor Relations Company 「最佳投資者關係公司」
- Best Analyst Conference 「最佳分析師會議」
- Best Corporate Website 「最佳公司網站」
- Best Investor Relations Professional 「最佳投資者關係專才」



- Good MPF Employer Award 2016-17 – Mandatory Provident Fund Schemes Authority: 2016-17年度「積金好僱主」嘉許計劃 – 強制性公積金計劃管理局:

- Good MPF Employer 積金好僱主
- e-Contribution Award 積金供款電子化獎
- Support for MPF Management Award 推動積金管理獎



- 7th Asian Excellence Award – Corporate Governance Asia: 第七屆亞洲卓越大獎 – 《亞洲企業管治》:

- Asia's Best CEO (Investor Relations) 亞洲最佳首席執行官（投資者關係）
- Best Corporate Communications 最佳企業傳訊
- Best Investor Relations Company 最佳投資者關係公司



VERIFICATION STATEMENT

Scope and Objective

Hong Kong Quality Assurance Agency ("HKQAA") has been engaged by China Everbright International Limited ("Everbright International") to undertake an independent verification for its Sustainability Report 2017 ("the Report").

The scope of HKQAA's verification covers the data and information associating to Everbright International's sustainability performance for the period from 1st January 2017 to 31st December 2017, as indicated in the Report.

The objective of this verification is to provide reasonable assurance of the data and information disclosed in the Report to confirm their accuracy, reliability and objectivity.

Level of Assurance and Methodology

The process applied in this verification was based on the International Standard on Assurance Engagements 3000 (Revised) - Assurance Engagements Other Than Audits or Reviews of Historical Financial Information issued by the International Auditing and Assurance Standards Board. Our evidence gathering process was designed to obtain a reasonable level of assurance in accordance with the standard for the purpose of devising the verification conclusion. The extent of this verification process was provided for the Comprehensive Option of the Global Reporting Initiative Sustainability Reporting Standards (GRI Standards), the GRI G4 Electric Utilities Sector Disclosure and the criteria set in the Environmental, Social and Governance Reporting Guide ("ESG Guide") of The Stock Exchange of Hong Kong Limited.

The verification procedure covered reviewing relevant documentation, interviewing responsible personnel with accountability for preparing the Report and verifying the selected representative sample of data and information used for preparing the Report. Raw data and supporting evidence of the selected samples were also thoroughly examined during the verification process.

Independence

Everbright International is responsible for the collection and presentation of the information in the Report. HKQAA did not involve in the collection and calculation of data in the Report or the compilation of the Report. HKQAA's verification activities are entirely independent from Everbright International.

Conclusion

Based on the verification results and in accordance with the verification procedures undertaken, HKQAA has obtained reasonable assurance and is in the opinion that:

- The Report has been prepared in accordance with the Comprehensive Option of the GRI Standards, the Electric Utilities Sector Disclosure and the ESG Guide;
- The Report illustrates Everbright International's sustainability performance, with respect to the material aspects identified, in a balanced, comparable, clear and timely manner; and
- The data and information disclosed in the Report are reliable and complete.

In conclusion, the report reflects truthfully of Everbright International's sustainability performance that is commensurate with the sustainability context and materiality of the company.

Signed on behalf of Hong Kong Quality Assurance Agency

Bryan Peng
Assistant Director
Manufacturing and Service Business Division
April 2018



核實聲明

範圍及目的

香港品質保證局獲中國光大國際有限公司（「光大國際」）委託對其《二零一七年可持續發展報告》（「報告」）的內容進行獨立核實。

此次核實範圍涵蓋報告內有關光大國際由2017年1月1日至2017年12月31日在可持續發展方面的表現資料和數據。

核實的目的是對報告內所記載之數據和資料提供合理保證，以確認有關內容的準確性、可靠性及客觀性。

保證程度和核實方法

此次核實工作是依據國際審計與核證準則委員會發布的《國際核證聘用準則3000（修訂版）》，歷史財務資料審計或審閱以外的核證聘用執行。收集證據的程序是根據有關準則為獲取合理保證以作出核實結論而制定。此外，核實過程的範圍是按照全球報告倡議組織所制定的《可持續發展報告標準》的「全面」選項，《電力行業披露》亦參照香港聯合交易所有限公司（「聯交所」）發佈的《環境、社會及管治報告指引》釐訂。

核實過程包括文件資料檢閱、與負責編制報告的代表面談、選取用於編制報告而具有代表性的數據和資料進行查核，相關原始數據和支持證據亦於核實過程中經過詳細審閱。

獨立性

光大國際負責收集和陳述在報告內的資料。香港品質保證局不涉及收集和計算此報告內的數據或參與編撰此報告。香港品質保證局的核實過程是獨立於光大國際。

結論

基於是次的核實結果，香港品質保證局對報告作出合理保證並總結：

- 報告的編制程度符合全球報告倡議組織的《可持續發展報告標準》的「全面」選項，《電力行業披露》和《環境、社會及管治報告指引》；
- 報告平衡、清晰、具比較性和及時地將光大國際重要範疇的可持續發展表現闡述；
- 報告內的資料和數據可靠完整。

總體而言，此報告能如實地反映光大國際的可持續發展表現並與其具體的可持續發展情況和重要性相稱。

香港品質保證局

彭文俊
製造及服務科助理總監
2018年4月

Economic Performance⁽¹⁾ 經濟表現⁽¹⁾

		2017 HK\$'000 港幣千元	2016 HK\$'000 港幣千元 (Restated) (重報)
Direct Economic Value Generated	產生的直接經濟價值		
Revenue	收益	20,043,116	13,971,204
Other income	其他收益	555,232	494,916
Other income and gains/(losses), net	其他收入及收益／(虧損)淨額	56,936	(39,775)
Economic Value Distributed	分配的經濟價值		
Staff costs	員工開支	1,229,145	893,032
Other costs ⁽²⁾	其他成本 ⁽²⁾	12,538,315	8,448,038
Finance costs	財務費用	938,280	639,584
Dividends	股息	1,075,852	918,957
Taxes ⁽³⁾	稅項 ⁽³⁾	386,921	303,625
Profit attributable to non-controlling interest	非控股權益應佔盈利	541,857	251,710
Charitable donations ⁽⁴⁾	慈善捐款 ⁽⁴⁾	24,615	4,014
Economic Value Retained	留存的經濟價值		
Retained for Everbright International's sustainable operation and development	留存作光大國際的可持續運營和發展	3,920,299	2,967,385

Operational Performance⁽⁸⁾ 運營表現⁽⁸⁾

		2017	2016
Business Performance	業務表現		
On-grid green electricity supplied (kWh) ⁽⁵⁾	綠色上網電量(千瓦時) ⁽⁵⁾	3,432,697,000	2,473,110,000
Household waste processed (tonne) ⁽⁵⁾	生活垃圾處理量(噸) ⁽⁵⁾	11,743,000	9,551,000
Leachate treated (m ³) ⁽⁵⁾	滲濾液處理量(立方米) ⁽⁵⁾	2,636,000	1,724,000
Number of ISO 9001 certificates	ISO 9001認證數目	22	11

Environmental Performance 環境表現

		2017	2016
GHG Emissions⁽⁷⁾	溫室氣體排放⁽⁷⁾		
CO ₂ e (Scope 1: from waste incineration) (tonne) ⁽⁸⁾⁽⁹⁾	二氧化碳當量 (範疇一:來自垃圾焚燒)(噸) ⁽⁸⁾⁽⁹⁾	10,044,398.44	4,906,568.75
CO ₂ e (Scope 1: from other sources) (tonne) ⁽⁸⁾⁽⁹⁾	二氧化碳當量 (範疇一:來自其他來源)(噸) ⁽⁸⁾⁽⁹⁾	73,128.33	41,440.93
CO ₂ e (Scope 2) (tonne) ⁽⁸⁾⁽⁹⁾	二氧化碳當量(範疇二)(噸) ⁽⁸⁾⁽⁹⁾	4,235.45	3,644.02
CO ₂ e (Scope 3) (tonne) ⁽¹⁰⁾⁽¹¹⁾	二氧化碳當量(範疇三)(噸) ⁽¹⁰⁾⁽¹¹⁾	515.41	Figures not available 沒有相關數字
GHG intensity (gCO ₂ e/kWh) ⁽¹²⁾	溫室氣體強度(克二氧化碳當量/ 千瓦時) ⁽¹²⁾	2.95	2.00
Key Air Emissions (tonne)⁽⁶⁾⁽⁸⁾	主要煙氣排放(噸)⁽⁶⁾⁽⁸⁾		
Particulate matter	顆粒物	118	104
Sulphur dioxide (SO ₂)	二氧化硫	439	406
Nitrogen oxides (NO _x)	氮氧化物	3,389	3,084
Energy consumed⁽⁷⁾⁽¹³⁾	耗用能源⁽⁷⁾⁽¹³⁾		
Natural gas (GJ) ⁽¹⁴⁾	天然氣(吉焦) ⁽¹⁴⁾	32,869.16	86,519.33
Diesel (GJ) ⁽¹⁵⁾	柴油(吉焦) ⁽¹⁵⁾	125,890.82	28,315.26
Non-renewable energy (GJ)	非再生電力(吉焦)	28,333.08	18,266.00
Renewable energy (GJ)	可再生電力(吉焦)	2,097,490.96	1,246,716.98
Total energy consumed (GJ)	總能源消耗(吉焦)	2,284,584.02	1,379,817.57
Energy intensity (kJ/kWh)	能源強度(千焦/千瓦時)	665.54	557.93
Fly ash/bottom ash treatment⁽¹⁶⁾	飛灰/爐渣處置量⁽¹⁶⁾		
Fly ash (tonne) ⁽⁷⁾	飛灰(噸) ⁽⁷⁾	403,208.63	235,884.16
Bottom ash (tonne) ⁽⁷⁾	爐渣(噸) ⁽⁷⁾	2,609,361.44	1,733,527.08
Number of ISO 14001 certificates	ISO 14001認證數目	22	11

Employment and Labour Practice Performance ⁽¹⁷⁾ 僱傭及勞工常規表現⁽¹⁷⁾

		2017	2016
Health and Safety	健康與安全		
Number of fatalities – employees and independent contractors working onsite	因工死亡個案－員工和獨立承包商駐場工人	0	0
Number of disability injuries – employees and independent contractors working onsite	因工傷殘個案－員工和獨立承包商駐場工人	0	0
Number of occupational diseases – employees and independent contractors working onsite	職業病個案－員工和獨立承包商駐場工人	0	0
Number of work-related injuries – employees	工傷個案－員工	5	1
Number of work-related injuries – independent contractors working onsite	工傷個案－獨立承包商駐場工人	13	5
Injury rate (IR) – employees ⁽⁷⁾⁽¹⁸⁾	工傷率(IR)－員工 ⁽⁷⁾⁽¹⁸⁾	0.12	0.06
Injury rate (IR) – independent contractors working onsite ⁽⁷⁾⁽¹⁸⁾	工傷率(IR)－獨立承包商駐場工人 ⁽⁷⁾⁽¹⁸⁾	0.27	0.26
Absentee days due to work-related injuries – employees (day)	因工傷缺勤日數－員工(天)	431	925
Number of OHSAS 18001 certificates	OHSAS 18001認證數目	22	11

Notes 附註：

- Includes all operations of the Group
包括本集團所有業務
- Represents other costs, share of profits of joint ventures and share of loss of associates but excludes depreciation and amortisation for the year
代表年度的其他成本、所佔合營企業盈利及所佔聯營公司虧損，但不包括年度的折舊及攤銷
- Represents current income tax but excludes deferred tax for the year
代表本期所得稅，但不包括本年度的遞延稅項
- Cash donation in 2017 amounted to HK\$24,124,000
其中二零一七年現金捐款為港幣24,124,000元
- Figures are rounded to the nearest thousand
數字調整至最接近的千位數表示
- Figures are rounded to the nearest integer
數字調整至最接近的整數表示
- Figures are rounded to two decimal places
數字調整至最接近的小數點後兩位表示
- The calculation boundary includes all Environmental Energy's operating waste-to-energy projects in China
計算邊界包括所有環保能源位於中國的運營垃圾發電項目
- The calculation for operating projects is referenced to CDM methodology "ACM0022: Alternative waste treatment processes (Version 2.0)"
運營項目的計算參照CDM方法《ACM0022：多選垃圾處理方式(2.0版)》
- The calculation boundary covers air travel by employees of business sectors of Environmental Energy, Envirotech, and Equipment Manufacturing
計算邊界包括環保能源、環境科技和裝備製造業務板塊的員工飛機差旅
- GHG emissions from air travel are calculated by ICAO Carbon Emissions Calculator
飛機差旅的溫室氣體排放以國際民航組織的碳排放計算器計算得出
- The increase in GHG intensity in 2017 is mainly contributed by Scope 1 emissions from the incineration of waste. Carbon dioxide equivalent emissions can fluctuate substantially based on the fraction of fossil carbon in total carbon content of the received household waste, for which the waste composition may vary greatly and is beyond Everbright International's control
二零一七年溫室氣體強度的增加主要來自焚燒垃圾產生的範圍一排放。二氧化碳當量的排放是以生活垃圾中化石碳佔總碳的比例為估算基礎，對此，垃圾成分的差異可造成二氧化碳當量的大幅波動，這不屬於光大國際控制範圍之內
- Includes all Environmental Energy's operating projects in China
包括所有環保能源位於中國的運營項目
- Energy content of natural gas is assumed to be 39.01 GJ per 1,000 m³
假設每千立方米天然氣含39.01吉焦能源
- Energy content of diesel is assumed to be 42.65 GJ per tonne
假設每噸柴油含42.65吉焦能源
- Includes all Environmental Energy's operating waste-to-energy projects and a sludge treatment and disposal project in China
包括環保能源所有位於中國的垃圾發電和污泥處理處置運營項目
- Excludes the performance of Environmental Water, Greentech, and our solid waste treatment company in Poland (Novago)
不包括環保水務、綠色環保及波蘭固廢處理公司(Novago)的表現
- Injury rate (IR) = (Total number of work-related injuries/Total working hours) x 200,000
工傷率(IR) = (工傷個案總計/工作總時數) x 200,000



GRI Content Index GRI 內容索引

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/ 確信
GRI 101: Foundation 2016 基礎 2016				
GRI 101 does not include any disclosures 不包含任何揭露				
GRI 102: General Disclosures 2016 一般揭露 2016				
Organizational Profile 機構概況				
102-1	Name of the organization 組織名稱	About this Report 關於本報告	3	✓
102-2	Activities, brands, products, and services 活動、品牌、產品與服務	About this Report 關於本報告	3	✓
102-3	Location of headquarters 總部位置	About this Report 關於本報告	3	✓
102-4	Location of operations 營運據點	About this Report; Our Sustainable Business 關於本報告；我們的可持續業務	3, 12-13	✓
102-5	Ownership and legal form 所有權與法律形式	About this Report 關於本報告	3	✓
102-6	Markets served 提供服務的市場	Our Sustainable Business 我們的可持續業務	12-13	✓
102-7	Scale of the organization 組織規模	Our Sustainable Business 我們的可持續業務	10-13	✓
102-8	Information on employees and other workers 員工與其他工作者的資訊	Valuing Our People 匯聚人才	63	✓
102-9	Supply chain 供應鏈	Greening Our Operations 致力綠色運營	35-37	✓
102-10	Significant changes to the organization and its supply chain 組織與其供應鏈的重大改變	Message from CEO; Greening Our Operations 行政總裁致辭：致力綠色運營	4-7, 35-37	✓
102-11	Precautionary Principle or approach 預警原則或方針	Greening Our Operations 致力綠色運營	29-37	✓
102-12	External initiatives 外部倡議	Message from CEO 行政總裁致辭	4-7	✓
102-13	Membership of associations 公協會的會員資格	Community and Philanthropy 社區與公益	85	✓
Electric Utilities Sector Disclosures 電力行業披露				
EU1	Installed capacity, broken down by primary energy source and by regulatory regime 按一次能源細分的裝機容量	Our Sustainable Business 我們的可持續業務	15	✓
EU2	Net energy output, broken down by primary energy source and by regulatory regime 按一次能源細分的淨能源輸出	Our Sustainable Business 我們的可持續業務	15	✓
EU3	Number of residential, industrial, institutional and commercial customer accounts 機構及商業客戶賬戶數目	Our Sustainable Business 我們的可持續業務	15	✓
EU4	Length of above and underground transmission and distribution lines by regulatory regime 地上及地下輸電及配電線路長度	Our Sustainable Business 我們的可持續業務	15	✓
EU5	Allocation CO ₂ emissions allowances or equivalent, broken down by carbon trading framework 按碳交易框架細分的二氧化碳當量排放量配額	We did not participate in carbon emissions trading scheme during the Reporting Period. 我們於報告期內沒有參與任何碳排放交易計畫。	-	✓
Strategy 策略				
102-14	Statement from senior decision-maker 最高決策者的聲明	Message from CEO 行政總裁致辭	4-7	✓
102-15	Key impacts, risks, and opportunities 關鍵衝擊、風險及機會	Message from CEO 行政總裁致辭	4-7	✓

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/ 確信
Ethics and Integrity 倫理與誠信				
102-16	Values, principles, standards, and norms of behavior 價值、原則、標準及行為規範	Our Sustainable Business 我們的可持續業務	9	✓
102-17	Mechanisms for advice and concerns about ethics 倫理相關之建議與關切事項的機制	Greening Our Operations 致力綠色運營	29-37	✓
Governance 管治				
102-18	Governance structure 治理結構	Greening Our Operations 致力綠色運營	31-35	✓
102-19	Delegating authority 授予權責	Greening Our Operations 致力綠色運營	31-35	✓
102-20	Executive-level responsibility for economic, environmental, and social topics 高階管理階層對經濟、環境和社會主題之責任	Greening Our Operations 致力綠色運營	31-35	✓
102-21	Consulting stakeholders on economic, environmental, and social topics 與利害關係人諮詢經濟、環境和社會主題	Stakeholder Engagement and Materiality 持份者參與及實質性	47	✓
102-22	Composition of the highest governance body and its committees 最高治理單位與其委員會的組成	Greening Our Operations 致力綠色運營	31-35	✓
102-23	Chair of the highest governance body 最高治理單位的主席	Greening Our Operations 致力綠色運營	31-35	✓
102-24	Nominating and selecting the highest governance body 最高治理單位的提名與遴選	Greening Our Operations 致力綠色運營	31-35	✓
102-25	Conflicts of interest 利益衝突	Greening Our Operations 致力綠色運營	31-35	✓
102-26	Role of highest governance body in setting purpose, values, and strategy 最高治理單位在設立宗旨、價值觀及策略的角色	Greening Our Operations 致力綠色運營	31-35	✓
102-27	Collective knowledge of highest governance body 最高治理單位的群體智識	Greening Our Operations 致力綠色運營	31-35	✓
102-28	Evaluating the highest governance body's performance 最高治理單位的績效評估	Greening Our Operations 致力綠色運營	31-35	✓
102-29	Identifying and managing economic, environmental, and social impacts 鑑別與管理經濟、環境和社會衝擊	Greening Our Operations 致力綠色運營	31-35	✓
102-30	Effectiveness of risk management processes 風險管理流程的有效性	Annual Report 2017 – Corporate Governance Report – Risk Management and Internal Controls 《二零一七年年報》—企業管治報告—風險管理及內部監控	-	✓
102-31	Review of economic, environmental, and social topics 經濟、環境和社會主題的檢視	Greening Our Operations 致力綠色運營	29-37	✓
102-32	Highest governance body's role in sustainability reporting 最高治理單位於永續性報導的角色	About this Report 關於本報告	3	✓
102-33	Communicating critical concerns 溝通關鍵重大事件	Greening Our Operations 致力綠色運營	29	✓

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/ 確信
102-34	Nature and total number of critical concerns 關鍵重大事件的性質與總數	Annual Report 2017 – Corporate Governance Report – Risk Management and Internal Controls 《二零一七年年報》—企業管治報告—風險管理及內部監控	-	✓
102-35	Remuneration policies 薪酬政策	Greening Our Operations; Annual Report 2017 – Corporate Governance Report 致力綠色運營：《二零一七年年報》—企業管治報告	31-35	✓
102-36	Process for determining remuneration 薪酬決定的流程	Annual Report 2017 – Corporate Governance Report 《二零一七年年報》—企業管治報告	-	✓
102-37	Stakeholders' involvement in remuneration 利害關係人的參與	Greening Our Operations; Annual Report 2017 – Corporate Governance Report 致力綠色運營：《二零一七年年報》—企業管治報告	31-35	✓
102-38	Annual total compensation ratio 年度總薪酬比率	Greening Our Operations 致力綠色運營	34	✓
102-39	Percentage increase in annual total compensation ratio 年度總薪酬增加之百分比	Greening Our Operations 致力綠色運營	34	✓
Stakeholder Engagement 利害關係人溝通				
102-40	List of stakeholder groups 利害關係人團體	Stakeholder Engagement and Materiality 持份者參與及實質性	39	✓
102-41	Collective bargaining agreements 團體協約	Collective bargaining agreements are not required by law in Hong Kong 香港沒有集體談判協議的相關法例	-	✓
102-42	Identifying and selecting stakeholders 鑑別與選擇利害關係人	Stakeholder Engagement and Materiality 持份者參與及實質性	39	✓
102-43	Approach to stakeholder engagement 與利害關係人溝通的方針	Stakeholder Engagement and Materiality 持份者參與及實質性	41-43	✓
102-44	Key topics and concerns raised 提出之關鍵主題與關注事項	Stakeholder Engagement and Materiality 持份者參與及實質性	41-43	✓
Reporting Practice 報導實務				
102-45	Entities included in the consolidated financial statements 合併財務報表中所包含的實體	Annual Report 2017 – Notes to Financial Statements (Pg. 139-297) 《二零一七年年報》—財務報表附註(139-297頁)	-	✓
102-46	Defining report content and topic boundaries 界定報告書內容與主題邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	48-49	✓
102-47	List of material topics 重大主題表列	Stakeholder Engagement and Materiality 持份者參與及實質性	48-49	✓
102-48	Restatements of information 資訊重編	There are no restatements of information in this Report. 本報告不涉及重編舊報告資訊。	-	✓
102-49	Changes in reporting 報導改變	Stakeholder Engagement and Materiality 持份者參與及實質性	48-49	✓
102-50	Reporting period 報導期間	About this Report 關於本報告	3	✓
102-51	Date of most recent report 上一次報告書的日期	About this Report 關於本報告	3	✓
102-52	Reporting cycle 報導週期	About this Report 關於本報告	3	✓
102-53	Contact point for questions regarding the report 可回答報告書相關問題的聯絡人	About this Report 關於本報告	3	✓
102-54	Claims of reporting in accordance with the GRI Standards 依循GRI準則報導的宣告	About this Report 關於本報告	3	✓
102-55	GRI content index GRI內容索引	Content Index 內容索引	103-109	✓
102-56	External assurance 外部保證/確信	Verification Statement 審核聲明	99-100	✓

Topic-specific Disclosures 特定主題準則

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/確信
GRI 200: Economic 經濟				
Economic Performance 經濟績效				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Our Sustainable Business 我們的可持續業務	9-27	✓
103-3	Evaluation of the management approach 管理方針的評估	Message from CEO: Our Sustainable Business 行政總裁致辭：我們的環保業務	4-7, 9-27	✓
GRI-201 Economic Performance 2016 經濟績效 2016				
201-1	Direct economic value generated and distributed 組織所產生及分配的直接經濟價值	Our Sustainable Business 我們的可持續業務	11	✓
201-2	Financial implications and other risks and opportunities due to climate change 氣候變遷所產生的財務影響及其它風險與機會	Message from CEO 行政總裁致辭	4-7	✓
201-3	Defined benefit plan obligations and other retirement plans 定義福利計劃義務与其它退休計畫	Valuing Our People 匯聚人才	72-73	✓
201-4	Financial assistance received from government 取自政府之財務補助	Government grants of HK\$68,927,000 were granted during the Reporting Period to subsidise certain Environmental Energy, Environmental Water and Greentech projects of the Group in mainland China and Poland. 於報告期內，本集團獲發放政府補助金港幣68,927,000元，以補貼本集團若干中國及波蘭的環保能源、環保水務及綠色環保項目。		✓
Market Presence 市場地位				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Valuing Our People 匯聚人才	63-70	✓
103-3	Evaluation of the management approach 管理方針的評估	Valuing Our People 匯聚人才	63-70	✓
GRI-202 Market Presence 2016 市場地位 2016				
202-1	Ratios of standard entry level wage by gender compared to local minimum wage 不同性別的基層人員標準薪資與當地最低薪資的比率	The compensation of all of our employees is higher than the minimum wage rules. 我們所有員工的工資均高於最低工資規則。	-	✓
202-2	Proportion of senior management hired from the local community 雇用當地居民為高階管理階層的比例	Valuing Our People 匯聚人才	65	✓
Electric Utilities Sector Disclosures 電力行業披露				
System Efficiency 系統效能				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Greening Our Operations 致力綠色運營	29-30	✓

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/ 確信
103-3	Evaluation of the management approach 管理方針的評估	Greening Our Operations 致力綠色運營	29-30	✓
Electric Utilities Sector Disclosures 電力行業披露				
EU11	Average generation efficiency of thermal plants by energy source and by regulatory regime 火電廠的平均發電效能	Our Sustainable Business 我們的可持續業務	15	✓
EU12	Transmission and distribution losses as a percentage of total energy 輸配電虧損	The difference between the amount of electricity sold and the amount received by power grid company was 0.2%. 售電量和電網公司收到的電量差額為0.2%。	-	✓
Research and Development 科研及開發				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Our Sustainable Business 我們的可持續業務	22-27	✓
103-3	Evaluation of the management approach 管理方針的評估	Our Sustainable Business 我們的可持續業務	22-27	✓
GRI 300: Environmental 環境				
Materials 物料				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Environmental Management 環境管理	56-58	✓
103-3	Evaluation of the management approach 管理方針的評估	Environmental Management 環境管理	56-58	✓
GRI-301 Materials 2016 物料 2016				
301-1	Materials used by weight or volume 所用物料的重量或體積	Environmental Management 環境管理	56-58	✓
301-2	Recycled input materials used 使用的可再生物料	In 2017, the percentage of recycled materials used (household waste) in our operation was 43.38%. 二零一七年，我們於運營中使用的可再生物料（生活垃圾）佔43.38%。	-	✓
301-3	Reclaimed products and their packaging materials 回收產品及其包材	Packaging materials and product recall are not applicable for Everbright International's business operations. 光大國際的業務不涉及包裝材料及產品回收。	-	✓
Emissions 排放				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Environmental Management 環境管理	51-55	✓
103-3	Evaluation of the management approach 管理方針的評估	Environmental Management 環境管理	51-55	✓

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/ 確信
GRI-305 Emissions 2016 排放 2016				
305-1	Direct (Scope 1) GHG emissions 直接 (範疇一) 溫室氣體排放	Environmental Management 環境管理	53	✓
305-2	Energy indirect (Scope 2) GHG emissions 能源間接 (範疇二) 溫室氣體排放	Environmental Management 環境管理	53	✓
305-3	Other indirect (Scope 3) GHG emissions 其它間接 (範疇三) 溫室氣體排放	Environmental Management 環境管理	53	✓
305-4	GHG emissions intensity 溫室氣體排放密集度	Key Statistics 主要數據	101	✓
305-5	Reduction of GHG emissions 溫室氣體排放減量	Environmental Management 環境管理	52	✓
305-6	Emissions of ozone-depleting substances (ODS) 破壞臭氧層物質的排放	We do not produce ozone-depleting substances (ODS) in our operation. 我們沒有於運營中產生臭氧層破壞物質(ODS)。	-	✓
305-7	Nitrogen oxides (NO _x), sulfur oxides (SO _x), and other significant air emissions 氮氧化物(NO _x)、硫氧化物(SO _x)、及其它重大的氣體排放	Environmental Management 環境管理	54	✓
Effluents and Waste 廢污水和廢棄物				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Environmental Management 環境管理	59-61	✓
103-3	Evaluation of the management approach 管理方針的評估	Environmental Management 環境管理	59-61	✓
GRI-306 Effluents and Waste 2016 廢污水和廢棄物				
306-1	Water discharge by quality and destination 依水質及排放目的地所劃分的排水量	Environmental Management 環境管理	55	✓
306-2	Waste by type and disposal method 按類別及處置方法劃分的廢棄物	Environmental Management 環境管理	55	✓
306-3	Significant spills 嚴重洩露	Environmental Management 環境管理	59-61	✓
306-4	Transport of hazardous waste 廢棄物運輸	Environmental Management 環境管理	59-61	✓
306-5	Water bodies affected by water discharges and/or runoff 受放流水及其它(地表)逕流排放而影響的水體	Joining Hands towards the Sustainable Development Goals 攜手踐行可持續發展目標	93	✓
Environmental Compliance 有關環境保護的法規遵循				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Environmental Management 環境管理	50-61	✓
103-3	Evaluation of the management approach 管理方針的評估	Environmental Management 環境管理	50-61	✓
GRI-307 Environmental Compliance 2016 有關環境保護的法規遵循 2016				
307-1	Non-compliance with environmental laws and regulations 違反環保法規	Environmental Management 環境管理	52	✓

Disclosure Number 披露編號	Description 描述	Relevant chapter(s) or Other References/Explanation 有關章節或其他參考/說明	Page Number 頁數	External Assurance 外部保證/ 確信
GRI 400: Social 社會				
Employment 勞雇關係				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Valuing Our People 匯聚人才	63-70	✓
103-3	Evaluation of the management approach 管理方針的評估	Valuing Our People 匯聚人才	63-70	✓
GRI-401 Employment 2016 勞雇關係 2016				
401-1	New employee hires and employee turnover 新聘員工和離職員工	Valuing Our People 匯聚人才	66-69	✓
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees 提供給全職員工 (不包含臨時或兼職員工) 的福利	Valuing Our People 匯聚人才	72-74	✓
401-3	Parental leave 育嬰假	Valuing Our People 匯聚人才	74	✓
Occupational Health and Safety 職業安全衛生				
GRI-103 Management Approach 2016 管理方針 2016				
103-1	Explanation of the material topic and its Boundary 解釋重大主題及其邊界	Stakeholder Engagement and Materiality 持份者參與及實質性	49	✓
103-2	The management approach and its components 管理方針及其要素	Greening Our Operations; Valuing Our People 致力綠色運營; 匯聚人才	75-76	✓
103-3	Evaluation of the management approach 管理方針的評估	Greening Our Operations; Valuing Our People 致力綠色運營; 匯聚人才	75-76	✓
GRI-403 Occupational Health and Safety 2016 職業安全衛生 2016				
403-1	Workers representation in formal joint management-worker health and safety committees 由勞資共同組成正式的安全衛生委員會中的工作者代表	Greening Our Operations; Valuing Our People 致力綠色運營; 匯聚人才	75-76	✓
403-2	Types of injury and rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities 傷害類別、傷害、職業病、損工日數、缺勤等比率, 以及因公死亡件數	Valuing Our People 匯聚人才	75-76	✓
403-3	Workers with high incidence or high risk of diseases related to their occupation 與其職業有關之疾病高發生率與高風險的工作者	Valuing Our People 匯聚人才	75-76	✓
403-4	Health and safety topics covered in formal agreements with trade unions 工會正式協定中納入健康與安全相關議題	Valuing Our People 匯聚人才	75-76	✓

HKEx ESG Reporting Guide Content Index 港交所《環境、社會及管治報告指引》內容索引

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標 (KPIs)	Description 描述	Relevant chapter(s) or Other References/ Explanation 有關章節或其他參考/說明	External assurance 外部驗證
Environmental 環境範疇			
Aspect A1: Emissions 層面 A1 : 排放物			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste. 有關廢氣及溫室氣體排放、向水及土地的排污、有害及無害廢棄物的產生等的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Environmental Management 環境管理	✓
KPI A1.1	The types of emissions and respective emissions data. 排放物種類及相關排放數據。	Environmental Management 環境管理	✓
KPI A1.2	Greenhouse gas emissions in total (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 溫室氣體總排放量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	Environmental Management 環境管理	✓
KPI A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生有害廢棄物總量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	Fly ash: 403,208.63 tonnes 飛灰：403,208.63噸 Intensity: (tonne/tonnes of MSW treated): 0.03 強度：（噸／噸垃圾處理量）：0.03	✓
KPI A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility). 所產生無害廢棄物總量（以噸計算）及（如適用）密度（如以每產量單位、每項設施計算）。	Bottom ash: 2,609,361.44 tonnes 爐渣：2,609,361.44噸 Intensity: (tonne/tonnes of MSW treated): 0.22 強度：（噸／噸垃圾處理量）：0.22	✓
KPI A1.5	Description of measures to mitigate emissions and results achieved. 描述減低排放量的措施及所得成果。	Environmental Management 環境管理	✓
KPI A1.6	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved. 描述處理有害及無害廢棄物的方法、減低產生量的措施及所得成果。	Environmental Management 環境管理	✓
Aspect A2: Use of Resources 層面 A2 : 資源使用			
General Disclosure 一般披露	Policies on the efficient use of resources, including energy, water and other raw materials. 有效使用資源（包括能源、水及其他原材料）的政策。	Environmental Management 環境管理	✓
KPI A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total (kWh in '000s) and intensity (e.g. per unit of production volume, per facility). 按類型劃分的直接及／或間接能源（如電、氣或油）總耗量（以千個千瓦時計算）及密度（如以每產量單位、每項設施計算）。	Key Statistics 主要數據	✓
KPI A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility). 總耗水量及密度（如以每產量單位、每項設施計算）。	Water Consumption: 49,345,483.20 tonnes 耗水量：49,345,483.20噸 Intensity: (tonne/tonnes of MSW treated): 4.20 強度：（噸／噸垃圾處理量）：4.20	✓
KPI A2.3	Description of energy use efficiency initiatives and results achieved. 描述能源使用效益計劃及所得成果。	Environmental Management 環境管理	✓
KPI A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency initiatives and results achieved. 描述求取適用水源上可有任何問題，以及提升用水效益計劃及所得成果。	Environmental Management 環境管理	✓
KPI A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced. 製成品所用包裝材料的總量（以噸計算）及（如適用）每生產單位佔量。	Our core product is green electricity, which do not involve the usage of packaging materials. 我們的主要產出物為清潔能源，並不使用包裝物料。	✓
Aspect A3: The Environment and Natural Resources 層面 A3 : 環境及天然資源			
General Disclosure 一般披露	Policies on minimising the issuer's significant impact on the environment and natural resources. 減低發行人對環境及天然資源造成重大影響的政策。	Environmental Management 環境管理	✓
KPI A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them. 描述業務活動對環境及天然資源的重大影響及已採取管理有關影響的行動。	Environmental Management 環境管理	✓

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標 (KPIs)	Description 描述	Relevant chapter(s) or Other References/ Explanation 有關章節或其他參考/說明	External assurance 外部驗證
Social 社會範疇			
Employment and Labour Practices 僱傭及勞工常規			
Aspect B1: Employment 層面 B1 : 僱傭			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare. 有關薪酬及解僱、招聘及晉升、工作時數、假期、平等機會、多元化、反歧視以及其他待遇及福利的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Valuing Our People 匯聚人才	✓
KPI B1.1	Total workforce by gender, employment type, age group and geographical region. 按性別、僱傭類型、年齡組別及地區劃分的員工總數。	Valuing Our People 匯聚人才	✓
KPI B1.2	Employee turnover rate by gender, age group and geographical region. 按性別、年齡組別及地區劃分的員工流失比率。	Valuing Our People 匯聚人才	✓
Aspect B2: Health and Safety 層面 B2 : 健康與安全			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards. 有關提供安全工作環境及保障員工避免職業性危害的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Valuing Our People 匯聚人才	✓
KPI B2.1	Number and rate of work-related fatalities. 因工作關係而死亡的人數及比率。	Valuing Our People 匯聚人才	✓
KPI B2.2	Lost days due to work injury. 因工傷損失工作日數。	Valuing Our People 匯聚人才	✓
KPI B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored. 描述所採納的職業健康與安全措施，以及相關執行及監察方法。	Valuing Our People 匯聚人才	✓
Topic B3: Development and Training 層面 B3 : 發展及培訓			
General Disclosure 一般披露	Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities. 有關提升員工履行工作職責的知識及技能的政策。描述培訓活動。	Valuing Our People 匯聚人才	✓
KPI B3.1	The percentage of employees trained by gender and employee category (e.g. senior management, middle management). 按性別及員工類別（如高級管理層、中級管理層等）劃分的受訓員工百分比。	Valuing Our People 匯聚人才	✓
KPI B3.2	The average training hours completed per employee by gender and employee category. 按性別及員工類別劃分，每名員工完成受訓的平均時數。	Valuing Our People 匯聚人才	✓
Aspect B4: Labour Standards 層面 B4 : 勞工準則			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labour. 有關防止童工或強制勞工的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料。	Valuing Our People 匯聚人才	✓
KPI B4.1	Description of measures to review employment practices to avoid child and forced labour. 描述檢討招聘慣例的措施以避免童工及強制勞工。	Valuing Our People 匯聚人才	✓
KPI B4.2	Description of steps taken to eliminate such practices when discovered. 描述在發現違規情況時消除有關情況所採取的步驟。	Valuing Our People 匯聚人才	✓
Operating Practices 營運慣例			
Aspect B5: Supply Chain Management 層面 B5 : 供應鏈管理			
General Disclosure 一般披露	Policies on managing environmental and social risks of the supply chain. 管理供應鏈的環境及社會風險政策	Greening Our Operations 致力綠色運營	✓

Subject Areas, Aspects, General Disclosures and KPIs 主要範疇、層面、一般披露及關鍵績效指標 (KPIs)	Description 描述	Relevant chapter(s) or Other References/ Explanation 有關章節或其他參考/說明	External assurance 外部驗證
KPI B5.1	Number of suppliers by geographical region. 按地區劃分的供應商數目	Greening Our Operations 致力綠色運營	✓
KPI B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, how they are implemented and monitored 描述有關聘用供應商的慣例，向其執行有關慣例的供應商數目，以及有關慣例的執行及監察方法	Greening Our Operations 致力綠色運營	✓
Aspect B6: Product Responsibility 層面 B6：產品責任			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress. 有關所提供產品和服務的健康與安全、廣告、標籤及私隱事宜以及補救方法的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料	Community and Philanthropy 社區與公益	✓
KPI B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons. 已售或已運送產品總數中因安全與健康理由而須回收的百分比	Recall is not applicable as our major products are green electricity. 我們主要的產出物為清潔能源，因此不涉及回收措施。	✓
KPI B6.2	Number of products and service related complaints received and how they are dealt with. 接獲關於產品及服務的投訴數目以及應對方法	We did not receive any products and service related complaints in 2017. 我們沒有於二零一七年接獲關於產品及服務的投訴。	✓
KPI B6.3	Description of practices relating to observing and protecting intellectual property rights. 描述與維護及保障知識產權有關的慣例	Not applicable 不適用	✓
KPI B6.4	Description of quality assurance process and recall procedures. 描述質量檢定過程及產品回收程序	Greening Our Operations 致力綠色運營	✓
KPI B6.5	Description of consumer data protection and privacy policies, how they are implemented and monitored. 描述消費者資料保障及私隱政策，以及相關執行及監察方法	Not identified as material topic 不被定義為實質性議題	
Aspect B7: Anti-corruption 層面 B7：反貪污			
General Disclosure 一般披露	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering. 有關防止賄賂、勒索、欺詐及洗黑錢的： (a) 政策；及 (b) 遵守對發行人有重大影響的相關法律及規例的資料	Greening Our Operations 致力綠色運營	✓
KPI B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the Reporting Period and the outcomes of the cases. 於匯報期內對發行人或其員工提出並已審結的貪污訴訟案件的數目及訴訟結果	Greening Our Operations 致力綠色運營	✓
KPI B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored. 描述防範措施及舉報程序，以及相關執行及監察方法	Greening Our Operations 致力綠色運營	✓
Community 社區			
Aspect B8: Community Investment 層面 B8：社區投資			
General Disclosure 一般披露	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests. 有關以社區參與來了解營運所在社區需要和確保其業務活動會考慮社區利益的政策。	Community and Philanthropy 社區與公益	✓
KPI B8.1	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport). 專注貢獻範疇（如教育、環境事宜、勞工需求、健康、文化、體育）	Community and Philanthropy 社區與公益	✓
KPI B8.2	Resources contributed (e.g. money or time) to the focus area. 在專注範疇所動用資源（如金錢或時間）	Community and Philanthropy 社區與公益	✓

SUSTAINABILITY
REPORT
可持續發展報告
2017

CHINA EVERBRIGHT INTERNATIONAL LIMITED
中國光大國際有限公司

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